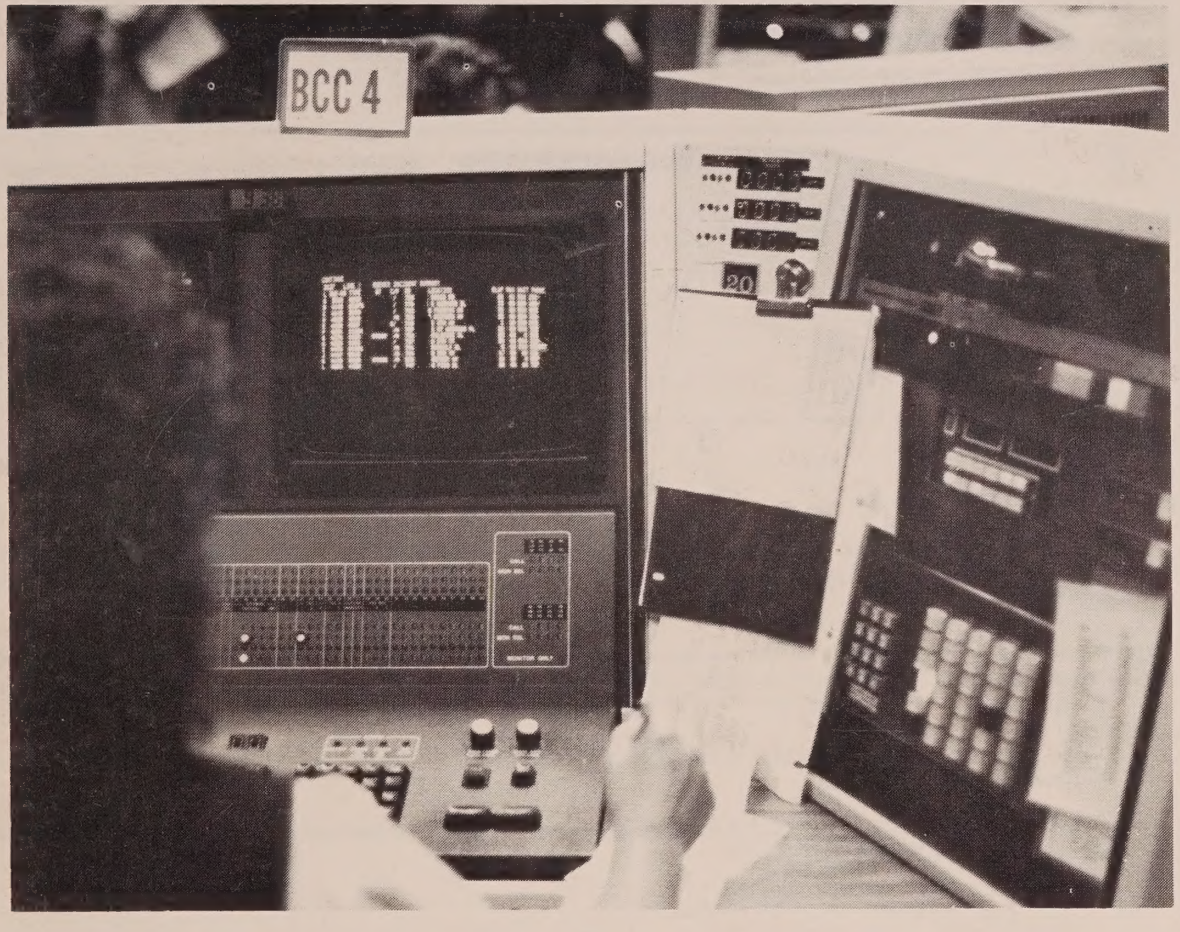
RCMA

NEWSLETTER

AUGUST 1986



FIRST NATIONAL AND INTERNATIONAL ORGANIZATION
OF MONITOR RADIO LISTENERS

RCMA, INC.
BOARD OF DIRECTORS
CHAIRMAN

E. J. Short (CA-OR-002)

Bob Leef (CA-OR-033)
Iden Rogers (CA-RI-001)
George Pond (CA-SB-008)

Danny Mclean (CA-OR-004)
Chuck Smith (CA-OR-001)
Jim Barrow (CA-OR-003)

OFFICERS

PRESIDENT
E. J. Short (CA-OR-002)

SR. VICE PRESIDENT
Bob Leef (CA-OR-033)

CHIEF FINANCIAL OFFICER
Mike Lussier (ID-001)

SECRETARY
Carol Ruth

VICE PRESIDENT, MEMBERSHIP
John Clark (CA-OR-078)

RCMA REPRESENTATIVE TO THE ASSOCIATION OF NORTH AMERICAN RADIO CLUBS

John Clark (CA-OR-078)

RCMA NEWSLETTER

GENERAL MANAGER
BUSINESS AFFAIRS • ADVERTISING

Carol Ruth (CA-OR-100)
P.O. Box 542
Silverado, CA 92676

GENERAL EDITOR

William Mauldin (FL-137)
2268 N.W. 30th Rd.
Boca Raton, FL 33431

ASSISTANT EDITOR

Kurt Swaney (KS-006)
P.O. Box 1198
Manhattan Beach, CA 90266-8198

FOR YOUR INFORMATION:

1. Input to the RCMA Newsletter must be mailed to the proper editors, whose addresses are included in the individual column headlines. If no particular column seems appropiate, send input to RCMA, P.O. Box 1198, Manhattan Beach, CA 90266-8198

2. To forward a letter to a specific RCMA member whose address you do not know, put your message to that person in a stamped envelope with your return address on it; mail to RCMA General Manager, P.O. Box 542, Silverado, CA 92676.

3. PLEASE INCLUDE YOUR RCMA MEMBERSHIP NUMBER WITH ALL CORRESPONDENCE to newsletter editors or club headquarters.

4. If you require a reply when writing to RCMA headquarters or to one of the editors, you MUST enclose a self-addressed, stamped envelope.

5. Please write on only one side of the paper.

6. Please don't combine in one letter several items that should go to different addresses.

7. If you want to type what you submit to the newsletter, please don't exceed a seven-inch column width and please single space. Doing this may save an editor from having to retype the material. Please don't use script type.

8. Your RCMA membership number and expiration date appear on your newsletter mailing label.

9. You may join or renew your membership for ONLY one year at a time.

10. RCMA accepts paid advertising. For information on advertising rates and mechanical requirements, contact Carol Ruth, RCMA Advertising Manager, P.O. Box 542, Silverado, CA 92676.

RCMA NEWSLETTER

ISSUE 126 AUGUST 1986

©Copyright. All rights reserved

RCMA, Inc., P.O. Box 4563, Anaheim, CA 92803

TABLE OF CONTENTS

AIRCRAFT 8
AMATEUR RADIO COMMUNICATIONS 11
ANARC NEWS 4
BELOW 30 MHz 13
BUSINESS, ETC 14
CALENDAR 2
CANADA 14
COMMUNICATIONS PROFILE 24
COMPUTER CORNER ..... Ø
CONTACT/INFO WANTED 18
FCC TOPICS 18
FEDERAL GOVERMENT/MILITARY 21
FROM THE CAPTAIN'S DESK 5
INTERNATIONAL 25
MARKETPLACE 26
MONITORING AND THE LAW 27
NEW MEMBERS LIST 60
NEW PRODUCT REVIEW 31
NEWS MEDIA COMMUNICATIONS 29
PHOTO DEPARTMENT 33
PUBLIC SAFETY:
- CALIFORNIA 46
- GREAT LAKES 40
- NORTH CENTRAL 49
- NORTH EAST 49
- SOUTH CENTRAL 37
- SOUTH EAST 45
- WEST 49

RAILROADS 50
RCMA BUSINESS REPORT ..... Ø
SPACE COMMUNICATIONS ..... Ø
SPECIAL FEATURE ..... Ø
TECHNICAL TOPICS 53
VHF MARINE 55
YOUR THOUGHTS 3

CONTACTING RCMA?

Membership applications or renewals, address changes, inquiries about delivery or renewal problems:

Write to: RCMA General Manager
P.O. Box 542
Silverado, CA 92676

Comments or questions about RCMA club policy or newsletter content: Write to: William Mauldin, RCMA General Editor
2268 N. W. 30th Rd.
Boca Raton, FL 33431

Letters for publication in "Your Thoughts" column: Write to: Kurt Swaney, RCMA Assistant Editor
P.O. Box 1198
Manhattan Beach, CA 90266-8198

Correspondence sent to RCMA's Anaheim Post Office Box will still be answered, but there will be a 4-6 week delay.

Computer-assisted dispatch console in use at LAPD's downtown dispatch center. Currently the most advanced stuff going (this year, anyway).

The RCMA Newsletter is published by members of the RADIO COMMUNICATIONS MONITORING ASSOCIATION, Inc., P.O. Box 4563, Anaheim CA 92803. Subscription rate/membership fee is $16.50 for U.S. residents. For persons in other countries, the following rates apply: Canada and Mexico—$18.50; Europe—$20.00, South Pacific and Asia—$21.50. These dues are payable in U.S. funds and are subject to change. Information contained herein is obtained primarily from members and does not necessarily present the position or reflect the opinion of RCMA as a whole. The RCMA does not necessarily recommend or endorse products or services advertised herein. The publication is copyrighted ©. Reproduction of any material in this newsletter is prohibited without prior written consent.

CALENDAR

Send notices of upcoming events for the Calender section to:
John R. Clark, 2701 Fairview Road, Costa Mesa, CA 92620
Deadline: 1st of the month two months prior to cover date.

R.C.M.A. Greater L. A. Area Chapter

Contact : Eric J. Christensen (CA-LA-045) KA6IHT 224.66 MZz
P.O. Box 3962 Santa Fe Springs, CA 90670-1962

R.C.M.A. West Los Angeles Chapter

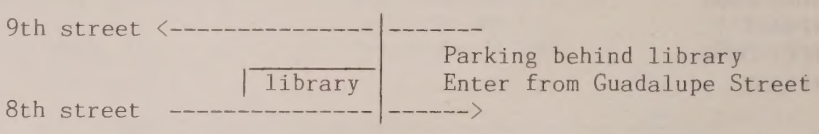
Contact : Hugh Stegman (CA-LA-472) (213) 473-8333
11622 Exposition Blvd #2, Los Angeles, CA 90064
Talk in: 146.925 MHz (-600 PL-2A) Tues 1930 hrs net.

The new West Los Angeles Chapter of RCMA meets on the 2nd Wednesday of every month, at 7:30 PM, at Shakey's on Sepulveda Blvd. and Playa or Jefferson (depends on which way you're going), in Culver City. This is a few blocks north of Fox Hills Mall, and the 405 freeway exit at Slauson.

Meetings are scheduled for Aug 13, Sept 10, and Oct 8, 1986. Come for frequency swapping and general fun.

Austin Area Radio Listeners Meeting

Meeting every 2nd Tuesday 6:45 PM Austin Public Library 4th floor room B. For more information, contact Richard Quintanilla TX 043 Austin Radio Club, P.O. Box 5053, Austin TX 78763



R.C.M.A. Chicago

Contact Edward Robert Sirovy IL-004 312 969 2856
311 S. Williams Street, Westmont, Il 60559

Meetings: Homer's Resturant and Lounge, 7340 Madison Street, Forest Park is currently the temporary location . This location is about 2 blocks west of Harlem Ave and about 3/4 mile from both the Congress/O'Hare and Lake St lines. It is 4 blocks north of the Eisenhower Expressway and 2 blocks west of the Harlem Ave Exit. (It would be wise to check with Ed Sirovy to be sure this is the location for the following meetings)

Saturday August	2	1986	12:30 PM
Sunday August	17	1986	Field Exercise (Shoe Factory
Saturday September	27	1986	12:30 PM Woods)
Saturday November	15	1986	12:30 PM

Visitors are welcome but please confirm the date in advance.

A SASE on file assures notification of tours and other items which may be scheduled on short notice.

R.C.M.A. for D.C., MD, VA, & DE

Contact: Capitol Hill Monitors % Alan Henney (MD 069)
6912 Prince Georges Ave, Takoma Park, MD 20912

R.C.M.A. Wisconsin

Contact Scott W. Miller WI-039
122 Greenbriar Drive, Sun Prairie, WI 53590

R.C.M.A. Minneapolis — St. Paul Area

Contact: Chuck Steier MN-008 (612) 927-9253
4820 Hwy 7, Minneapolis, MN 55416

A SASE on file assures notification of chapter activities (tours, gatherings, etc). Non members are welcome to attend.

Southern New England Scanners Club

The Southern New England Scanners Club is currently undergoing a reorganization.

All Ohio Scanner Club

Contact : Dave Jones Treasurer or John Thyne Secretary
P.O. Box 148, Vandalia, Ohio 45377

The All Ohio Scanner Club covers the area of Indiana, Kentucky, Michigan, Pennsylvania, West Virginia, and Ontario, Canada. We welcome members from these and other areas who wish to join our club.

Sample Newsletter: $1.00 plus $0.39 stamp. Membership information for a large SASE to the Post Office Box listed above.

To contact David B. Marshall OH-146, Managing Editor and Founder,
50 Villa Road, Springfield, OH 45503-1036

* * * * * *
* SECOND *
* ANNUAL *
* PICNIC *
* * * * * *

The ALL OHIO SCANNER CLUB will host it's second annual summer meeting and picnic on Saturday, August 17, 1986, in Columbus, Ohio. All R.C.M.A. members are invited to attend. For more information, please send a SASE to David B. Marshall OH 146 50 Villa Road, Springfield, OH 45503-1036

NEED BACK ISSUES OF THE RCMA NEWSLETTER:

Lots (Months/Year)	No. of Issues	Price
Sept 75 — June/July 76 (No Oct. or Nov. Published)	7	$2.00
August — Dec. 76 (No Oct. Published)	4	$3.00
Jan. — June 77	6	$4.00
July — Dec. 77	6	$4.00
Jan. — June 78	6	$5.00
July — Dec. 78	6	$5.00
Jan. — June 79	6	$6.00
July — Dec. 79	6	$7.00

1980—to date issues are available at $1.50 per copy

Order Total	Include This Amount of Postage
$ 1.50 — $ 5	$1.20
$ 5.50 — $10	$2.25
$10.50 — $15	#3.30
$15.50 — $25	$4.15
$25.50 — $35	$5.50
Over $35	$7.00

Send your request & check/M.O. (payable to RCMA) to:
RCMA General Manager
P.O. Box 542
Silverado, CA 92676

your thoughts

Kurt Swaney, RCMA Assistant Editor
P.O. Box 1198, Manhattan Beach, CA 90266-8198

Your Thoughts is RMCA's members forum on current topics of interest to the scanner hobbyist. If you have any thoughts you would like to express, RCMA encourages you to send them in.

All letters must include your name, address, and RCMA membership number. Due to space limitations, RCMA reserves the right to condense submitted material.

Apparently, nobody had any thoughts this month;
Kurt reports that the mail bag was empty.

ASSOCIATION OF NORTH AMERICAN RADIO CLUBS
NEWS HIGHLIGHTS

ANARC is a federation of the most responsible, well established radio listening clubs in North America. RCMA attained Full Member status in ANARC in 1977. For a list of the ANARC Member and Associate Member clubs send a self-addressed, stamped business size envelope with your request to the address below.

Write to Joe Barr, 1500 Bunbury Dr., Whittier, CA 90601, for the following:
Copy of ANARC Club List — Sent 25¢ and an SASE (business size)
Sample Copy of ANARC Newsletter — Send 60¢ and an SASE (business size)
Annual Subscription to ANARC Newsletter — $7.50 for residents of U.S., Canada, and Mexico; $10 Overseas (Airmail)

ANARC 1986 Convention will be held July 18-20 in Montreal, Quebec, Canada,

Registration details from Ian McFarland, Radio Canada International, P.O. Box 6000, Montreal, Quebec H3C 3A8 Canada

JULY 26 WASHINGTON AREA DX ASSOCIATION (WADXA) Saturday, 1PM. Outdoor potluck picknic at home of Walt and Peggy Sillars, 7413 Tilden St, Landover Hills, Maryland. Special guest of Honor: Michael Murray, European DX Council. All DXers are invited. Call Jay Goldberg(301)951-0712 or Arlene Luskin(301)593-4411 for information. WADXA's delegate to ANARC will be Ken Mason.

JULY 30 MICHIGAN AREA RADIO ENTHUSIASTS (MARE) Wednesday, 7:30 PM at the Dearborn Civic Center, Dearborn, MI. Special Guest Speaker, Arthur Cushen, President, New Zealand Radio DX League. Details, send a SASE to: M.A.R.E. 24500 Union, Dearborn, MI, 48124

AUG 2 SOUTHERN CALIFORNIA AREA DXERS (SCADS) will present Arthur Cushen, National President, New Zealand Radio DX League, as guest speaker, at their meeting. For information send a #10 SASE to Don Schmidt, SCADS, 3809 Rose Ave, Long Beash, CA 90807-4334. Lots of free parking

AUGUST 22-24 INTERNATIONAL RADIO CLUB OF AMERICA (IRCA) Annual IRCA Convention Palm Beach, Florida. Convention sessions at Hyatt of the Palm Beaches Hotel. Including Banquet, radio station tours, IRCA Auction, ballgame etc. IRCA is a medium-wave radio convention. Registration details for a SASE from IRCA, P.O. Box 482, East Moline, IL 61244

AUGUST 20-SEPT 1 - NATIONAL RADIO CLUB (NRC) Annual N.R.C. Labor Day Weekend Convention. Ramada Inn, New Castle, Delaware. For detains send a SASE to Dave Schmidt, Box 11502, Wilmington, Delware, 19850

WORLDWIDE TV-FM DX ASSOCIATION (WTFDA) Will be holding their annual summer convention in Jamestown, New York. For details and registration data, send a SASE to W.T.F.D.A., P.O.BOX 514, Buffalo, New York, 14205.

GILFER CELEBRATES 33RD YEAR IN SHORTWAVE. They specialize in SWL receivers, antennas and accessories. For a free catalog, send your name and address to Gilfer, 52 Park Ave, P.O. Box 239, Park Ridge, NJ 07656

ARTHUR CUSHING named honorary ambassador by the government of New Zeland. He will be promoting the radio listening hobby and New Zealand during his visits North America this summer. He will be speaking at ANARC 1986, MAER, and SCADS. He is National President of the New Zeland Radio DX League, which has active branches in six New Zealand cities.

FAIR RADIO SALES CO specialies in electronic and radio surplus accessories. For a copy of their new 36-page catalog write, Fair Radio Sales Co, P.O. Box 1105, 1016 Ease Eureka ST, Lima, Ohio 45802.

CLAYTON and HELEN HOWARD to return to HCJB. They will be making a seven month comback from retirement to host the "DX Party Line" which they ran from 1962 to 1984. They extend an invitation to all to enter HCJB's Special DXer Contest. To enter send a photo and information about yourself to ANDEX, HCJB, Casilla 691, Quito, Ecuador.

THE FUTURE OF UNITED NATIONS SHORTWAVE RADIO is in serious doubt. The Voice of America, whose transmitters, the U.N.Radio uses, have increased the U.N.'s fees from $30.00/hr to $179.00/hr. VOA states the new fee reflects the actual cost for the technical use of the transmitters. UN officials say that they cannot afford to operate on these terms and appear to be ready to cease broadcast operations on VOA transmitters in USA, Liberia, Philippines, and Morocco.

From The CAPTAIN'S DESK

William Mauldin, RCMA General Editor
2268 N.W. 30th Rd., Boca Raton, FL 33431

1986 ANNUAL MEMBERSHIP SURVEY UPDATE

The mid-year 1986 Annual Membership Survey, which was scheduled for printing in June or July, has been delayed because we have been using our centerfold space for the much more important updates on the Electronics Privacy legislation. I will be sending the Survey to Carol Ruth next week, and it will be printed as soon as the NEWSLETTER centerfold space is available.

If you are a new member to RCMA, the Annual Survey is our way of soliciting your opinions on the club. The Survey is printed once a year as a centerfold pull-out, and you are asked to answer the questions and return the completed form as directed. The club staff works to improve the club and the NEWSLETTER, and by having everyone to voice their opinion on certain subjects at least once a year, we are better able to understand the needs of the majority, and hopefully make any needed improvements.

In this upcoming Survey, we will be asking something new. One new item will allow you to place your name on file with the staff if you are interested in becoming a volunteer RCMA editor. We have openings all during the year as the current staff changes. Starting soon, we will no longer make announcements in the NEWSLETTER when an editor resigns. The announcement will be mailed directly and immediately to those RCMA members who have expressed an interest in that particular column, so they may respond with an application letter. By using this method, the position will be filled within a very short time, and the column will continue to be printed monthly, without interruption. If you have an interest in joining the staff, make certain you answer this portion of the Survey! We need to have this information on file so you can be notified if the column that interests you becomes available.

I ask each and everyone of you to please take a few minutes and complete the form when it is printed. We will design it so all you have to do is make a few check marks and answer with a word or two. We hope to have a much better form this year, and let the computer tally and print the results for all to see. The Survey will show up in the centerfold section soon, and your response will direct RCMA for 1987.

CLUB NEWS - CHAPTER NEWS - ANNOUNCEMENTS

One of the objectives of RCMA is to promote and encourage local groups to meet and enjoy our hobby of communications monitoring. One of the more active local groups is the RCMA Chicago Chapter. If you live in the greater Chicago area and would like more information on this outstanding local RCMA Chapter, contact Ed Sirovy (IL-004), 311 South Williams, Westmont, Illinois 60559 or phone him at 312-969-2856. Ed has been sending me the local news bulletins and club announcements, and it is very evident that the Chicago RCMA Chapter is quite active and interesting.

Dave Marshall, Editor of the ALL OHIO SCANNER CLUB sends us a copy of his latest NEWSLETTER this month. The Ohio group is growing constantly, and so is their club publication. This month's edition notes eleven new members, which is really great news! The ALL OHIO SCANNER CLUB NEWSLETTER, published every other month, covers Ohio in great detail. In addition to Ohio, there are sections on Kentucky, Pennsylvania, and the other states which border Ohio. The club has expanded the publication to a full 48 pages, with topics like Special Topics, Information Please, detailed Federal and Military,

Marketplace, Transportation, a Below 30 MHz, Product and Book Reviews, a Tune In column, and Dave's own Dispatcher column. If you have not seen a copy of this excellent monitoring publication, I encourage you to write to the ALL OHIO SCANNER CLUB, Post Office Box 148, Vandalia, Ohio 45377 for complete information.

RECEIVING A NEW SATELLITE TELETYPE NEWS SERVICE

Universal Electronics, Inc., publishers of HIDDEN SIGNALS ON SATELLITE TV sent me a very interesting news letter this week. One of the news items gives details about how simple it is to print the new "UP-DATE" weather and news service from the Galaxy I satellite. If you have a home satellite TV receiver and antenna, along with your other radio receiving gear, this information might interest you.

A new RTTY (radio teletype) news service called UP-DATE is now transmitting on Transponder 3 of the Galaxy I satellite. The service carries a wide range of news, sports and weather information. The transmission is at 75 baud (100 words per minute), 170 shift, and is located on the sub-carrier of WGN-TV. The data is sent in a 32 character line, which suggests that the service is a feed for cable TV services. The data comes from two national press services and runs about 8 minutes behind the main press service feed.

Here are the instructions on how to print UP-DATE:

1. Tune in Galaxy I, Transponder 3 (WGN-TV)

2. Use the equipment configuration shown on page 101, figure 4.35 in the Second Edition of HIDDEN SIGNALS ON SATELLITE TV. The illustration shows in detail how to set up your reception station for low baud data reception on audio sub-carriers.

3. Hook up the unfiltered video output from your satellite receiver (video demodulator at 70 MHz) to the antenna connector of your quality LSB/USB general coverage shortwave communications receiver. Use 50 ohm RG-58 coax cable with the proper connectors for this hook-up.

4. Run the audio output of the general coverage receiver to the input of a quality commercial or ham RTTY demodulator with the proper cables and connectors.

5. Set the demodulator on 75 baud (100 WPM) BAUDOT at 170 Hz shift, normal phasing. Tune the general coverage receiver dial to 7754.4 KHz. The 75 baud rate signal will be weak, but 100% copy will result with careful tuning of the receiver.

6. UP-DATE can also be copied on 7769.5, 7799.0 and 7813.0 KHz. These are parallel frequencies and sometimes offer slightly different services.

If you are interested in learning more about the hundreds of hidden signals being transmitted on satellites, contact Universal Electronics, Inc., 4555 Groves Road, Suite 13, Columbus, Ohio 43232. Send a stamped, self-addressed business size envelope with your request for more information.

NEW PUBLICATIONS AND BOOK NEWS

To prove that our hobby is growing, Gene Hughes announced this past week that Volumes 2 and 3 of the 1986 POLICE CALL have already been re-printed, as the first printing was sold out shortly after the publication was released!

FOX MARKETING INC. has released two new editions of their SCANNER RADIO LISTINGS! The two new editions are the Greater Pittsburg edition and the first regional book published by Fox, the SOUTHEASTERN U.S. edition.

The new SOUTHEASTERN U.S. directory by Fox is quite exciting and very useful. I am pleased to see Fox offer a regional directory. In the past, Fox has offered books on major metropolitan areas, givivg those of you who live in twenty seven metro areas excellent reference books, however, until now, only the states of Alaska and Arizona have been covered in wide detail. The SOUTHEASTERN U.S. directory is a BIG one, offering 526 pages of information on Alabama, Florida, Georgia, Louisiana, Mississippi, North and South Carolina, Tennessee --- plus the first directory coverage of Puerto Rico and the Virgin Islands! Details of police and fire, ambulance and rescue, local government, forestry, commercial marine, mobile telephones, aircraft, and NOAA weather services are printed. This publication is certainly a handy reference guide if you live in or visit these areas, but you won't be able to put it in your pocket!

The new FOX SCANNER RADIO LISTING for GREATER PITTSBURG is another in the excellent series of books on a metropolitan area. This directory contains just about everything you would need for complete monitoring. There are forty five counties, cities and townships listed in the book, plus some that I probably didn't count. And, Fox has used the same detailed format of listing just about everything in aircraft, amateur radio, ambulance and rescue, broadcasting, business, clubs, federal, forestry, government, media, police, security, rail and transportation. The Pennsylvania State Police and West Virginia State Police are covered in detail. There are complete codes, signals and other useful hints for monitoring Greater Pittsburg, as well as monitoring in general. FOX MARKETING INC. at 1-800-543-7892 or 1-800-621-2513 (Ohio) has details.

UPDATE, the 5th edition, has been released by editor and publisher J. Patrick McDonald. Pat has worked long and hard to give you Southern California buffs a complete listening guide for your area, with special attention paid to San Diego and Imperial County. This is perhaps the most detailed publication that I have seen for Southern California. The data printed covers the broadcast bands, complete aeronautical listings, airfones, alarm companies, amateur radio listings for California and Mexico, ambulance and Red Cross, amusement parks, transportation services, police. fire, EMS, sheriff, highway patrol, complete city and local government services, Civil Air Patrol, hospitals, hotels, and the most detailed federal listing that I have seen. The book is filled with call signs, maps, frequencies, codes, signals, helpful monitoring hints and a large, detailed frequency index in the last third of the book. In talking with Pat, he mentioned that he received considerable help from the FCC in collecting much of his information, and this 5th Edition certainly shows detailed research efforts. Information on UPDATE can be obtained by sending a stamped, self-addressed envelope to UPDATE, Post Office Box 393, Vista, CA 92083. UPDATE, the 5th Edition, sells for $14.95 plus $1.90 for tax and shipping.

SCANNER FREQUENCY DIRECTORY for Northwestern Ohio and Southeastern Michigan, the 4th Edition, has been released by Daryll Symington of Midwest Softwear Services. This 92 page directory has been updated with complete and detailed listings for all cities, counties and for state and federal agencies in the coverage area. You will find a main alphabetical list, a frequency cross-listing, radio codes, unit assignments and lots of other data to help you monitor in Ohio and Michigan. The user services of aircraft, media, transportation, local and federal government, fire, police, EMS, marine and business are all there. There are hints to help you understand the bands, different systems and radio frequency assignments. This 4th Edition has a special section on 800 MHz and the latest frequencies of interest. The book sells for $7.95 and is available from Midwest Softwear Services, Post Office Box 399, Holland, Ohio 43528.

SOUTHEASTERN REPEATER JOURNAL, published by the CVRA Southeastern Repeater Association, Post Office Box 5655, Greensboro, NC 27435, is now available. The August edition gives details on amateur repeater frequencies for NC, SC, Virginia, Tennessee, West Virginia, East Kentucky and Georgia. This is the most complete, up to date directory on ham VHF and UHF operation for the coverage area. The book also gives details about hamfests, swap meets, nets and other amateur radio news. Copies are available for $1.50 by contacting CVRA at the address noted above. If listening to amateur radio in the southeastern U.S. is your thing, you need to check with CVRA!

RCMA welcomes the chance to review new publications related to our hobby of radio monitoring. Publishers are encouraged to advertise with us. Advertising rates are available from the Business Manager. We also encourage publishers to mention RCMA in their publications as a non-profit organization devoted to the promotion and enjoyment of hobby communications monitoring. RCMA wants to keep our membership informed of all books and publications related to radio listening for fun and entertainment.

NEWS ITEMS IN BRIEF

KUSTOM ELECTRONICS just announced a new mobile digital terminal for patrol car use. The new MDT links the vehicle to a central computer to optimize performance in the field. Features include character generated graphics with over 13,000 characters. When MDT messages are received, an audible indication is sounded. Inquiry and response time is measured in seconds by forward error correction, and data can be transmitted, received and stored in the MTD with ease. The terminal, when active, will store all messages received and display the first line of each message for operator review and selection.

IRVING, CALIFORNIA Police have just installed their new Vehicle Tracking System (VTS). Twenty five police vehicles have been equipped with the Mark II Morrow locater units,

dramatically increasing the dispatcher's ability to provide prompt and appropriate operational control. The VTS system uses a network of established loran transmitters as a source of signals for special mobile loran receivers. These signals allow the VTS receivers to determine their own unique locations on the face of the earth. The continually updated locational data is transmitted digitally to the base station by VHF radio. At the dispatcher's position, a video display is generated, depicting an identified representation of the vehicle and it's precise location. Each car is equipped with a radio panel which has status buttons for the patrol car status. The dispatcher can receive not only the car location on the video display, but signals for clear, out, traffic, pursuit, emergency and so on. The days of the spoken words "10-20 ?" are passing as modern computers and technology take their place in Irving.

CLOSING COMMENTS

RCMA is a club, a non-profit organization, and as such, we can offer publishers, dealers, manufacturers and other commercial and business organizations very low advertising rates for space in our monthly RCMA NEWSLETTER. The cost of your yearly membership is directly related to the cost of running the club and printing this publication. If we were to have more companies advertising with us, perhaps you would pay less for your yearly membership. When you buy anything which is communications related, mentioned to the business that you are an RCMA member, and that perhaps they should consider advertising with us. No other organization or publication that I know of can reach so many readers with an interest in radio communications for the price of an RCMA ad. Each of us is a club member, and we all have a responsibility to support the club. Do your part by telling those that you buy from about RCMA and ask that they write the RCMA Business Manager for details on our advertising rates. You are our salesman.

The information published in this NEWSLETTER is printed as a direct result of membership research and member contribution. Our material is only as good as what the editor receives. Many members have mentioned to me that they don't have anything to send in. If you just wrote down the frequencies that you monitor just once a year and mailed them to the Editor of your favorite subject, we would have a better publication each month. Take a few minutes and "support your local Editor"! Contributions make the NEWSLETTER more interesting and more up to date! We need your input too!

AIRCRAFT

Send private, commerical, firefighting and law enforcement aircraft frequencies of interest in the 108-136 MHz range and frequencies in other bands above 30 MHz associated with airports and aircraft plus questions, articles and tips related to aircraft monitoring to:

Darrel Charest, 1913F Oak Creek Lane, Bedford, TX 76022

Several months back one of our members suggested we explain how the transfer of control takes place as the aircraft leaves the gate, taxies to the runway, departs, flies to the destination, lands and proceeds to parking.

Let's carry this a bit further from preflight at departure to arrival at the destination. To begin, pilots are required by regulation to obtain a preflight weather briefing, which they can do by several methods. The easiest is to make a telephone call to the nearest FAA Flight Service Station. The briefer will not only provide weather reports and forecasts, but also any other related information concerning the flight such as the status of communications, navigation aids and the destination airport. If the flight will be under IFR (Instrument Flight Rules) the FAA Briefer will take your flight plan over the telephone and enter it into the computer at the Air Route Traffic Control Center. The computer will process the flight plan and automatically forward the data to the control tower where the flight will depart and land, as well as to any other Centers through which the flight will transit.

Usually before taxiing the pilot will ask Clearance Delivery (In the control tower) for his IFR clearance before he proceeds to the departure runway, but he must have this clearance prior to takeoff. After receiving the IFR clearance the pilot calls for taxi clearance, and moves to the departure runway. At this point he changes frequency to the control tower for takeoff clearance. Then within seconds after takeoff the pilot will be advised by the tower to contact departure control. After making this frequency change the pilot will normally remain on this channel until instructed to change to the Center. From this point the flight will remain under the jurisdiction of the Air Route

Traffic Control Center until approaching the destination. At the appropriate point, usually 25 to 50 miles from the arrival airport the handoff will be made to approach control. In a high density traffic area, still another frequency change will be made to another arrival controller before changing to the tower for landing clearance. After clearing the runway, the flight will go to ground control for clearance to parking.

There are some variations to this scenario. For example, light twins and single engine aircraft operating at low altitudes (usually less than 10,000ft) may be handled by Tower Enroute Control. If we were flying from Ft Worth to Austin we would initially be controlled by DFW, then changed to Waco, to Gray Army Approach and finally to Austin, never under the Ft Worth or Houston Center's control.

At the same time, nearly all air traffic is controlled using radar but a few areas remain across the country where manual or non-radar control is exercised. And in some cases, as in the tower enroute example previously, your flight may be controlled by Army, Navy or Air Force approach control facilities.

Not only do I appreciate receiving your frequency lists, I would also like to try to answer questions you may have related to flying and the air traffic system.

Now on to the mail.

Last month we listed some frequencies provided by Paul NJ 72, who asked not to be identified further. Without doubt Paul's listing was the most comprehensive that I've ever seen, and in a beautiful format. As we mentioned last month, Paul lists all 720 aircraft channels though some are blank. My sincere regret is that we can't publish them all, just as received - but there are 19 pages! In any event, we will include more of these in this and future issues. Members in the Minneapolis area who would like a copy of this material should send a SASE with double stamps please for the 19 pages.

Our Communications Profile Editor, Joe M Lewis, MD-015, mailed another list of channels for the Florida area. Joe writes that all these frequencies have been confirmed. Joe asked if I knew where "JR" Southfork Ranch was located from Dallas. It's about 10 or 15 miles east of Dallas and seems to be one of the most popular tourist attractions in our area.

Elmore Carter, CALA-648 wrote to request information on aircraft frequencies and especially those that might tie-in with law enforcement, CHP helicopter and others. About the only help I could give Elmore was to say that Police units in this area, use the law-enforcement channels when talking to ground units and normal air traffic control frequencies otherwise. Perhaps I should have mentioned that when I've been able to monitor these conversations they have been some of the more interesting ones.

From Upstate New York James Otis, NY-152 furnished us with his favorite radio frequencies.

Donald Ford Elliott, CASM032, send an article from the San Mateo Times related to airport history in bygone years. George Golding is the author, and aside from providing historical accounts of many of the airports in the Bay Area, he mentioned another interesting fact. The article states that Mr Lincoln Beachey took off from Tanforan airport in 1912 and made the very first landing on a warship - a battleship with a 100 ft deck. After a glass of champagne with assorted dignitaries he departed and flew back to Tanforan. The article also shows a picture of a restored Ford Trimotor owned by Bill Harrah, stating the restoration took six years and $500,000 to complete. The article makes note of the fact that most individuals who were involved in aviation's early days are no longer around and some aviation history may be lost if the survivors aren't prompted to provide us with their experiences.

Here is the list provided by James Otis, NY-152 for the Syracuse area.

Hancock International Airport, Syracuse, N.Y.

121.7	Ground Control	460.7	U.S. Air
120.3	Local Control (Tower)	460.775	American
124.2	Approach Control	129.32	American and TWA
118.85	Approach Control (West)	130.7	Eastern
128.25	ATIS	129.8	Republic

124.6	Approach Control (East)	123.3	Executive Air
120.75	ATIS	123.5	Airex
122.95	Unicom (SAIR Aviation)		
130.1	U.S. Air Company		

Watertown NY Airport

123.6	Airport Advisory

Kingston Ontario

125.4	126.7

Griffis Air Force Base, Rome N.Y.

118.3	Approach Control	120.9	Useage Unknown
120.9	Approach Control	126.2	Control Tower

More Florida frequencies from Joe M Lewis, MD-015

The following are all Aircarrier Company frequencies:

Miami

130.825	Eastern	129.75	Piedmont

Tampa

460.875	Northwest	460.8	Ozark

Orlando

460.7	Piedmont (Not 460.775)	460.725	United
128.85	Eastern		

Sarasota

128.925	Eastern	130.525	People Express
130.875	Eastern	131.45	Delta
129.775	Ozark		

Ft Lauderdale

130.35	Northwest	129.3	United

Jacksonville

130.525	Peoples Express	131.45	Delta

Ft Meyers

130.35	Northwest

Daytona Beach

131.0	Eastern

Here are some more frequencies from Paul, NJ 72 for the Minneapolis area.

These are Chicago and Minneapolis Air Route Traffic Control Center frequencies that are remoted to different locations throughout their control area. These frequencies have been identified unless otherwise indicated (*).

123.75	CHI	Aurora, Il	120.6	MSP	Aberdeen, SD
133.95	CHI	Bradford, Il	126.1	MSP	Alexandria
127.95	CHI	Bradford, Il	133.4	MSP	Alexandria
135.6	CHI	Burlington	134.75	MSP	Bemidji, Mn
132.95	CHI	Chicago Hights	135.8	MSP	Clark
127.45	CHI	Danville, Il	133.8	MSP	Clark
133.6	CHI	Dells, Wi	125.5	MSP	Darwin, Mn
127.05	CHI	Des Moines, Ia	132.4	MSP	Des Moines

120.35	CHI	Des Plaines, Il	135.775	MSP	Des Moines
128.65	CHI	Des Plaines, Il	*125.65	MSP	Des Moines
135.75	CHI	Downers Grove	133.55	MSP	Dickenson, ND
133.5	CHI	Downers Grove	126.8	MSP	Dickenson, ND
135.275	CHI	Dubuque, Ia	134.55	MSP	Duluth, Mn
127.0	CHI	Dubuque, Ia	127.9	MSP	Duluth, Mn
132.725	CHI	Dubuque, Ia	134.675	MSP	Duluth, MN
133.825	CHI	Dubuque, Ia	133.75	MSP	Eau Claire
134.2	CHI	Hampshire, Il	125.3	MSP	Eau Claire
128.05	CHI	Hampshire, Il	127.65	MSP	Escanaba, Mi
132.225	CHI	Horicon, Wi	127.75	MSP	Fairmont, Mn
127.5	CHI	Horicon, Wi	127.35	MSP	Fargo, ND
135.55	CHI	Horicon, Wi	134.85	MSP	Farmington
132.75	CHI	Horicon, Wi	134.0	MSP	Ft Dodge, Ia
*128.15	CHI	Madison, Wi	134.45	MSP	Gopher, Mn
132.3	CHI	Milwaukee, Wi	*135.7	MSP	Gopher, Mn
118.75	CHI	Moline, Il	120.3	MSP	Gopher, Mn
135.975	CHI	Rockford, Il	132.15	MSP	Grand Forks
133.0	CHI	Rockford, Il	127.8	MSP	Grand Forks

Stay cool, See you in September.

AMATEUR RADIO COMMUNICATIONS

This column is for reporting on amateur radio activities that may be of interest to scanner listeners. Send reports and questions concerning repeater nets, civil emergency systems, packet ratio, amateur TV, etc., to:

Terry Stader, MI-062, 8 Christopher Road, Westford, MA 01886

Greetings..... Welcome to the August edition of RCMA. I hope the summer is treating everyone good. It is a little strange to be writing that statement in May!!!

I have received some information from you out there and want to get right down to business, but first I want to apologize to some of you who have written to me and provided SASE's. I have been on the road with the company I work for and moving too (business location only). I will get to you as soon as I can. I will send anyone who writes to me a copy of the the column (hopefully before you see it in print!) if they provide an SASE. As I mentioned in last months column, unfortunately I cannot provide any Database functions for frequencies in your area. I have in the past few issues given you some reference material to find that information.

I got an addendum to **Richard's, NY-319** input of last month. Unfortunately I got it the day after I mailed the column in. Sorry about that! Richard reports that the **Nassau County VHF Traffic Net (NCVHFTN)** meets daily at 1930 ELT (except Sat. & Sun.) on the "machine" (repeater) sponsored by the Grumman Amateur Radio Club, **146.145/146.745 Mhz in Bathpage, L.I., NY.** Richard notes that there are alot of 2 meter nets handling traffic in his area.

Jim Michael (MI-165) gives us a listing from my old home, Southeatern Michigan/Detroit, area of both 2 meter and 440 Mhz repaeters that he listens to.

Freq.	Name	Location
145.23	Edison	Detroit- top of the Edison Building
146.295	S.M.A.R.T.	Oak Park- 8 1/2 Mile between Coolidge and Wyoming
146.64	D.A.R.T.	Link system, receiver, 16 Mile and I-75, Xmtr, 10 Mile and Greenfield. Oakland County Skywarn repeater.
146.67	M.E.C.A.	Mt. Clemens- Macomb County Skywarn repeater
146.76	Spirit of 76	Detroit- top of Michigan Central RR Station
146.85	Clarkston	Clarkston
147.15	S.E.M.A.R.A.	Detroit- 7 Mile Rd. and Mack Ave. Information Net: every Tuesday at 9 PM (except 3rd Tuesday)
147.18	U.S.E.C.A.	Utica- 21 Mile Rd. between Van Dyke and Mound

443.025	Detroit- Schoolcraft and Wyoming
443.55	Detroit

Thanks for your input, Jim.

Last but not least, information was received from George, CA-TO-001 in Groveland, CA. George says he monitors with a Bearcat 250 and a Hustler Discone from an elavation of 3,500 ft. with good reception of alot of repeaters. His list is shown below.

Freq.	Call	Location and other information
147.03	WR6ALG	Mt. Bullion, Mariposa County
146.85	K6OGX	Bear Mtn., Fresno, CA
146.64	WR6AUN	Mt. Pluto, Sacremento County
147.33	?	?
147.175	?	?
146.685	?	?
146.83	?	?
146.725	?	?
146.965	?	?

These with a question George hears but is not sure of callsign or location. In his area are also the following repeaters:

146.73	WB6FZK	Fresno, Fresno County
146.82	WR6BBX	Fresno, Fresno County
147.06	WR6AOP	Fresno, Fresno County
145.13	WR6AFA	Meadow Lakes, Fresno County
147.825	WR6AFH	Meadow Lakes, Fresno County
146.94	WR6AOU	Meadow Lakes, Fresno County
146.73	WD6EJF	Modesto, CA
147.945	K6PSJ	Modesto, CA
145.27	WR6AHG	Auburn, CA
146.145	WB6GWZ	Auburn, CA
146.91	WR6AEN	Sacramento, CA
145.21	WA6SEK	Altamount Pass, CA
147.06	WR6AHK	Concord, CA
146.955	WR6AYR	Danville, CA
146.88	WR6AFV	Riverside, CA
146.88	WR6ACV	Stockton, CA
147.975	?	Sonora, CA- Tuolumne County
145.17	?	Sonora, CA- Tuolumne County

Thanks for the input George and now to answer some of your questions, too. I have had several people ask what some of the initials stand for ie, FSK, FAX and etc. Most of the initials are those frequently used by the hams using CW (continuous wave) and Phone (voice communications). Below I have shown these common abbreviations and a short description. If you want more detail, you may want to get the Amateur Radio Handbook. This is a very comprehensive book giving all the details any ham could want. Many projects to build are contained as well as information regarding licensing, operating bands and modes, plus lots of other goodies. Also make a good reference book for all of those little used formulas they tried to teach me in college!

CW- Continous Wave, bursts of RF energy given in lengths of Dits and Dahs. Commonly refered to as Morse Code after Samuel Morse.

AM- Amplitude Modulation, where the information is contained within the RF envelope.

FM- Frequency Modulation, type of modulation where the intllegence is determined by the rate and amount of frequency change.

FSK- Frequency Shift Keying, that commonly used by RTTY mode where characters are sent by a predetermined set of two tones.

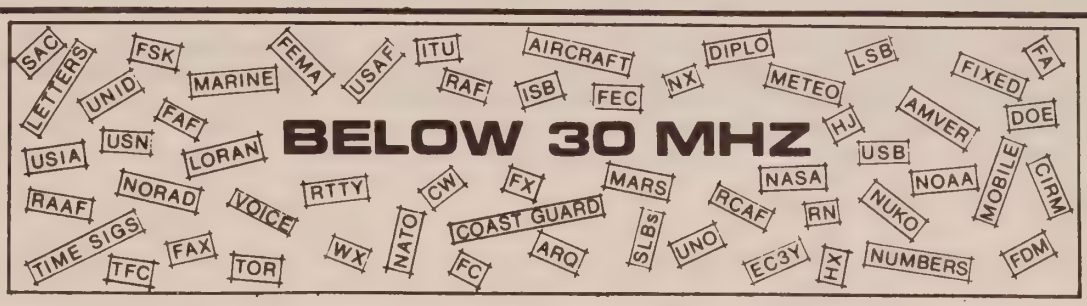
FAX- Facsimile is a picture sent by digitally encoding the image and transmitting to be decoded by the receiver. Weather photos are a common type of FAX transmission.

SSTV- Slow Scan Television- a older mode of Amateur TV but still being used. Common now is the faster rate commonly used by today portable color cameras and VCR's.

SSB- Single Sideband- transmission of either the lower or upper (DSB is double sideband) intelligence is sent only, the carrier is suppressed and reinserted at the receiver end.

That's all for this month. See you next month. Keep those cards and letters coming! And ..... be carefull out there!

de KA8SCP



This column is for HF AM, CW, SSB, RTTY and FAX reception reports, note, articles, and questions related to HF utilities. Services covered in this column include aeronautical, coastal/marine, weather, government, military and 'spy' stations — essentially everything except broadcasting, CB and amateur radio.

Send reports to: Geoff Halligey, 85 Southwood Road, Cottingham, England, HU16 5AJ.

NO COLUMN THIS MONTH

F.M. TWO-WAY RADIO

TOTAL COMMUNICATIONS

5 Watt VHF hand helds from $250, UHF from $300.
30 Watt Mobiles from $400.
Repeaters from $1300.
Antennas and Accessories.
VISA/Mastercard Accepted.

OUR 14TH YEAR!

COMMUNICATIONS CENTER

915 N. EUCLID, ANAHEIM, CA. 92801 (714) 635-1033

BUSINESS, ETC.

This column is for reporting frequency and radio system information for the following varied services: business, forest products, petroleum industry, special industrial, manufacturers, news media (behind-the-scenes radio, TV & newspaper), motion picture industry, security (private patrol, detective agencies, campus security & police, amusement park & stadium security, shopping center & mall security, plant/business/hotel security, etc.) General Mobile Radio Service (GMRS), mobile phone/RCC & paging, trucking firms, bus lines, taxi cabs, tow trucks, utility companies (private & municipal water, power, electric, gas, telephone, etc.), and all school & college related frequencies. Send information and questions pertaining to the radio services covered in this column to:

Send Business monitoring information East of the Mississippi to:

Brandt Niemuth, P.O. Box 541, Rosemont, IL 60016

Hello to another "Summer" chapter of "Business, Etc" activity, if there is any other than at the beaches. Thought for the month: Overheard: "Ever had that nightmare where your ship commes in - and you're at the airport."From Dave (CT-092) comes some info for the Hartford, Conn area:

Hartford Electric & Light:

48.16 Middletown & East Hampton, Conn.
48.2 Hartford, Conn
48.34 Simsbury & Norwalk, Conn
48.4 Torrington, Conn
48.04 Western Mass.
48.52 New London, Conn
173.35 (Service, Meter Readings, Gas Leaks) Helco

Connecticut Light & Power:

37.48 Willimantic, Conn
37.76 Meridan, & Cheshire, Conn
37.8 Waterbury & Danialson, Conn
37.74 Bristol, Enfield, Tolland & New Milford, Conn
37.6 Generating Stations
173.25 Service, Meter Reading & Gas Leaks

Send Business monitoring information West of the Mississippi to:

Cliff Polkinghorn, 14310 Acacia St., San Leandro, CA 94579

NO COLUMN THIS MONTH

CANADA

Send Canadian frequency information, radio system details and other information relating to Canadian monitor radio listening and questions to:

Rob Berezowski, 310-4045 Rae St, Regina, Saskatchewan, Canada S4S 6Y8

Greetings once again and welcome to the August Canada column. It really does feel like summer here, finally! That of course means that all the girls are out in the park. I've been told the Newsletter is a "family" publication, so we'll just leave it at that. I'm still behind in my letters, so once again I have to say please be patient.

Our first contribution this month comes from a member who wishes to remain anonymous. This member has supplied the following lists for the Belleville, Brockville, and Kingston areas of Ontario:

BELLEVILLE REGION

Police	OPP Belleville Dist #9	Base to Mobile	42.060
	" " "	Mobile to Base	42.220

	Belleville City Police		142.035 / 138.015in
	Ont Police Common Channel		142.770 / 138.750in
Fire	Belleville Fire Dept		153.830 / 154.785in
	" " "		154.070 / 154.070
	" " "		154.265 / 154.265
	Cannifton Fire Dept		153.830 / 153.830
	Frankford City Fire Dept		154.430 / 154.430
	Hastings County Fire Dept		153.515 / 154.235in
	" " " "		153.515 / 153.515
	Northumberland County Fire Dept		153.515 / 154.235in
	Sidney Township Fire Dept		153.770 / 154.635in
	" " " "		153.770 / 153.770
	" " " "		153.830 / 153.830
Ont Min of	Health Belleville Region Ambulance Ch 2		149.170 / 149.170
	Sidney Township Ambulance		149.440 / 149.440
	Provincial Ambulance Channel		150.100 / 150.100
Ont Min of	Natural Resources (Northumberland)		46.700 / 46.700
" " "	" " "		46.760 / 46.760
" " "	" " "		46.820 / 46.820
" " "	" " "		46.940 / 46.940
" " "	" " "		47.080 / 47.080
News Media	CJBO Radio Belleville STL Link		450.150
	" " " " "		450.350
	" " "		455.7375/ 455.7375
Municipal	Belleville Parks Dept		163.350 / 163.350
	Belleville Public Works		169.170 / 169.170
	" " "		169.230 / 169.230
	" " "		456.6625/ 456.6625
	Hastings County Public Works		165.945 / 165.945
Bus	Belleville Transit Service		170.250 / 170.250
Utilities	Ontario Hydro		49.460 / 49.460
	" "		465.2375/ 465.2375
	Northern & Central Gas Corp		152.870 / 152.870
Business	Black Diamond Cheese Factory		451.9625/ 456.9625in
	Devolins M Sales (Auto dealer)		151.070 / 151.070
	Keller Pools		163.020 / 163.020
	McAllisters C Cabinets		166.965 / 166.965
	Sinclair Welding		163.710 / 167.490in
Pagers	Alliance Pager	Belleville	148.315
	TAS Pagette	Belleville	148.405
Mobile Telephone (Belleville)		JP	152.570 / 157.830in
" " "		YJ	152.630 / 157.890in

BROCKVILLE REGION

Police	Brockville City Police		142.935 / 138.915in
	Ont Prov Police (OPP) Dist #10 B to M		42.060
	" " " " " " M to B		42.220
	Prescott City Police		151.145 / 151.145
	Ont Police Common Channel		142.770 / 138.750in
Fire	Brockville City Fire Dept		154.430 / 154.430
	" " " "		154.070 / 154.070
	Leeds & Grenville County Fire		154.430 / 154.430
	Morrisburg Fire Dept		154.130 / 154.130
	" " "		153.440 / 153.440 ?
	North Gower Fire Dept		154.175 / 154.175
	Prescott City Fire Dept		154.010 / 154.010
	Russell County Fire Dept		154.010 / 154.010
Ont Min of	Health Brockville City Ambulance		150.280 / 150.280
	" Amb Prov Channel		150.100 / 150.100
	" Air Ambulance		413.6875/ 418.6875
	" " "		413.7625/ 418.7625
	" " "		413.8125/ 418.8125
	" " "		413.8625/ 418.8625
	" " "		413.8875/ 418.8875
	Kemptville Region Ambulance Disp		149.335 / 150.685in
	Morrisburg Region Ambulance Disp		149.335 / 150.685in
	Ottawa Region Ambulance		149.605 / 149.170in
	Prescott Region Ambulance Disp		149.335 / 150.685in
	" " "	(Pager)	149.440 / 150.645in

Ont Min of Natural Resources (Brockville)		Ch 02	46.700 /	46.700
" " " " " "		03	46.740 /	46.740
" " " " " "		04	46.720 /	46.720
" " " " " "			46.640 /	46.640
Ont Min of Trans & Comm Brockville		*	143.730 /	148.720in
" " " " " "			143.940 /	148.870in
" " " " " "			143.955 /	148.930in
" " " " " "			143.970 /	148.915in
" " " " " "	Kemptville	*	143.865 /	148.885in
" " " " " "			143.940 /	148.870in
" " " " " "			158.760 /	158.760
" " " " " "			168.240 /	162.345

* - Note these two repeater frequencies are at the North Augusta site:

Ont Min of Trans & Comm North Augusta rptr site		143.730 /	148.720in
" " " " " " " " " "		143.805 /	?
" " " " " " " " " "		143.865 /	148.885in
Ontario Hydro Brockville		49.660 /	49.660
Parks Canada Mallorytown		157.470 /	158.160in
"		157.470 /	157.470
(Repeater is located on Hill Island -ed)			
Municipal Brockville City Public Works		169.080 /	169.080
" " " "		169.185 /	169.185
Brockville City PUC		169.470 /	169.470
Bell Canada Telephone Maintenance Brockville		163.170 /	165.540in
Mobile Telephone Brockville	YJ	152.630 /	157.890
Ivy Lea Bridge Operations & Maintenance		158.850 /	158.850
Radio Amateur repeater	VE3 BAT	146.820 /	146.220in
Blue Line Taxi Ltd (Prescott)		164.670 /	164.670
Message Network Pager		149.260	
" " "		413.9625	

KINGSTON REGION

Police	Gananoque City Police		142.695 /	138.675in
	Kingston City Police	Ch 2	142.065 /	138.045in
	" " "	3	142.815 /	138.785in
	Napanee City Police		142.185 /	138.165in
	Ont Prov Police (OPP) Kingston Dist 9		42.060	B to M
	" " " " " " "		42.220	M to B
	Provincial Common Police Channel		142.770 /	138.750in
Fire	Bath Town Fire Dept		154.160 /	154.160
	Ernestown Township		169.635 /	169.635
	Kingston City Fire Dept		154.280 /	154.280
	" " " " Fire Marshall		154.070 /	154.070
	Kingston Township Fire Dept		154.620 /	154.620
	Leeds & Grenville County Fire Depts		154.430 /	154.430
	Loughborough Township Fire		170.100 /	166.170in
	Newburgh City Fire Dept		154.325 /	154.325
	Pittsburg Township Fire Dept	Ch 23	27.255 /	27.255
	" " " "		153.860 /	153.860
	Portland Township Fire Dept		154.680 /	154.680
Ont Min of Health Kingston Ambulance Prov Ch		1	150.100 /	150.100
" "		2	149.170 /	149.170
" " Prov Paging		4	149.440	
Ont Min of Natural Resources (Frontenac Co)		*	46.640 /	46.640
" " " " " "			46.700 /	46.700
" " " " " "		*	46.720 /	46.720
" " " " " "			46.740 /	46.740
" " " " " "			46.760 /	46.760
(* - Main channels)				
Ont Min of Trans & Comm Glenburnie			143.805 /	?
" " " " " "			143.955 /	148.930in
" " " " " " Fixed Links			419.4375/	414.4375
" " " " " " " "			419.4875/	414.4875
" " " " " " " "			419.6875/	414.6875
Kingston			143.730 /	148.720in
" " " " " "			143.850 /	148.840in
" " " " " "			143.865 /	148.885in
" " " " " "			143.940 /	148.870in

" " " " " " "	"	143.955 / 148.930in
" " " " " " "	"	143.970 / 148.915in
Corrections Canada	Collins Bay Pen./Frontenac Inst.	150.740 / 151.295in
	" " " " "	153.125 / 153.125
	Joyceville & Pittsburg Inst.	150.740 / 151.295in
	" " " "	151.520 / 151.520
	Kingston Penitentiary	150.740 / 151.295in
	" "	151.520 / 151.520
	Kingston Prison for Women	150.740 / 150.740
	Millhaven Pen. / Bath Institute	150.740 / 151.295in
	" " " "	151.520 / 151.520
Ont Corrections	Napanee Detention Centre	143.235 / 143.235
	" " "	411.6625/ 416.6625in
	" " "	411.8875/ 411.8875
Dept of Communications (Kingston)		149.080 / 149.080
Trans Canada Pipelines Kingston		162.420 / 159.360in
" " " "		162.420 / 162.420

(This channel is a Canada-wide allocation for Trans Canada Pipelines, used for operations along the pipeline route across Canada -ed)

Ontario Hydro Kingston				49.500 / 49.500
	Lennox Generating Station (Bath)			413.0875/ 418.0875in
Northern & Central Gas Corp (Kingston)				152.870 / 152.870
Municipal	Bedford Township			169.125 / 169.875in
	" "			169.125 / 169.125
	Camden E Township (Centerville)			140.535 / 140.535
	Frontenac County Roads			169.740 / 169.200in
	Gananoque City Public Works			169.095 / 169.095
	Godfrey Township			169.125 / 169.875in
	" "			169.125 / 169.125
	Kingston City Public Works			166.485 / 166.485
	" " " "			167.190 / 167.190
	" " " "			169.050 / 169.050
	Kingston Township Office (Roads)			44.120 / 44.120
	Loughborough Roads Dept			165.465 / 165.465
	Napanee City Public Works			169.245 / 169.245
	Oddesa Township			166.635 / 166.635
Hospitals	Kingston General Hospital			150.395 / 150.395
	Hotel Dieu Hospital (Kingston)			151.055 / 151.055
	" " " "			168.810 / 168.810
	" " " "			172.260 / 172.260
News Media	CKLC Radio (Kingston)			152.930 / 152.930
	CKWS Radio (Kingston)			153.530 / 153.530
	CKWS TV (Kingston)			450.0875/ 450.0875
	" " "			455.6875/ 455.6875
	Kingston Cablenet (Cable TV)			171.150 / 171.150
	Whig Standard Newspaper			155.610 / 155.610
Urban Transit Development Co (Millhaven)				412.2875/ 417.2875in
" " " " "				412.5875/ 417.5875in
" " " " "				412.8875/ 417.8875in
Queens University Maintenance/Operations				166.590 / 166.590
Alcan Plant				167.970 / 167.970
Canada Cement Lafarge (Bath)				462.4875/ 467.4875in
Radio Amateur Repeaters		VE3KNR	Kingston	146.790 / 146.190in
		VE3KER	Kingston	146.940 / 146.340in
		VE3KBR	Belleville	146.985 / 146.385in
		VE3LGS	Kingston	147.345 / ?
Pagers	Alliance Pager			148.315
	Bell Canada Pager			149.770
	Message Network Pager			413.9625
Telephone	Mobile Telephone (Kingston)		YR	152.750 / 158.010in
	" " "		JJ	152.480 / 157.740in
	Bell Canada Phone Repair (Kingston)			162.660 / 162.660
Purolator Courier (Kingston)				462.675 / 467.6875in
Business Repeaters	Message Network (Kingston)			163.500 / 167.160in
	" "			163.215 / 168.945in
	Alliance Communications			163.695 / 167.475in
	" "			163.740 / 167.520in
	" "			163.845 / 167.850in
Bus Lines	Lake Bus Lines (Oddesa)			167.010 / 167.010
	Travelways Bus Lines (Kingston)			166.545 / 166.545
Taxi	Amherst Taxi (Amherstview)			162.210 / 167.430in

	Amey's Taxi (Kingston)	164.670 / 150.815in
	Modern Taxi (Kingston)	150.065 / 152.150in
	Red Line Taxi (Kingston)	163.905 / 163.905
Towing	D & J Towing	165.720 / 165.720
	Rogers Towing	164.535 / 168.550in
	Wards Towing	167.940 / 167.940
Embury Bros Farms (Newburgh)		169.935 / 169.935

Well, that's all the material for Ontario, and a big thank you goes to our anonymous member. That about wraps it up for this month. Next month I'll take a few paragraphs to list some frequencies for the Regina area from yours truly. Until then, "Get your act together, be cool, and let the good times roll!"

contact info wanted

This column has two purposes: to help members *contact* each other, and to help members obtain *information* directly from one another on various subjects related to 2-way communications monitoring. If you desire to converse, meet, or correspond with other members by telephone, letter, or cassette tape in a certain geographic area or with members who have similar listening interest, *this* is the perfect place for you to make known your interests. Remember — those who respond will do directly, so be sure to provide your phone number, the best time to be called, or your address. Write to:

Scott Mattson, 2820 Bridge Ave., Point Pleasant, NJ 08742

CONTACT WANTED: This member seeks contact with anyone who has extensive knowledge of L.A. and Orange counties Fire Department radio and tone activiated alarm system.
TORY WIEDENKELLER (CA/OR-299) 13522 Dean St., Tustin, CA 92680 or (714) 544-5050 (5/86)

INFO WANTED: For the San Francisco/Oakland Bay area. Frequencies for Pizza delivery trucks, Demolition contractors, UPS & Federal Express (both air & ground). Also, need a confirmed frequency for the San Francisco Medical Examiner (coroner). All help is appreciated.
DENNIS BAUMGARDNER (CA/AL-021) P.O. Box 12031, Oakland, CA 94604 (5/86)

FCC TOPICS

George DuBois, Editor

FCC news and information of interest relating to two-way communications. Send comments and questions to:
George DuBois, 10048 NE Campaign, Portland, OR 97220

The FCC has relaxed the restrictions on the ten Business Radio Service frequency pairs reserved for airport utility use. These frequencies (460.650 through 460.875, paired with 465.650 - 465.875 mHz) are available for use by entities engaged in support of air transportation services in the 87 largest urban areas with a maximum power of 20 watts. Other Business Radio Service licensees had to be located at least 75 miles distant and could only use a maximum power of 110 watts ERP. This amendment reduces that distance to 50 miles and allows an output power of 300 watts ERP. All use will continue to be on a secondary basis to airport facility stations, though, and other Business Radio Service users must ensure non-interference to such stations. Low power (two watts or less) use will also continue to be permitted in industrial complexes, but must be at least ten miles removed from the enter of the airport.

Another recent amendment eliminates the need for individual users of trunked 800 mHz SMRS systems to apply for modification of their license every time frequencies are added (or taken away from) the system. (In SMRS systems, only the SMRS operator is licensed for the repeater. The individual users are licensed on the input (811 - 821 mHz) frequencies.) The requirement to modify their license whenever the system changed created a burden on the system users, as well as on the Commission, which had to process the modifications. Now, users may operate on any frequency

"The Largest Dealer of Scanners in the World"

SCANNER WORLD, USA

10 New Scotland Ave., Albany, NY 12208 518/436-9606

Special Purchase SALE!!

The Regency Z30

30 Channel Automatic/Programmable Scanner

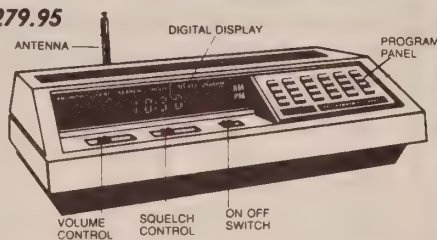
Suggested Factory List Price $279.95

Z30 FEATURES:

- ***30 Channels***—*For full coverage and easy selection.*
- ***No Crystals Required***—*Your choice of over 15,000 frequencies just by pushing a raised type button on the keyboard face.*
- ***6 Bands***—*Covers high and low VHF, UHF and UHF "T" plus two FM Ham Bands.*
- ***Search or Scan***—*Scan frequencies you have entered or search for exciting new frequencies.*
- ***Priority Control***—*Automatically overrides all other calls to listen to your favorite frequency.*
- ***Alarm Clock***—*Quartz Clock with programmable alarm.*
- ***Permanent Backup System***—*Memory requires no batteries. Capacitor saves frequencies entered up to one week during power outage or storage.*
- ***Dual Level Display***—*Selects brightness level of green vacuum flourescent digital display.*
- ***Channel Lockout***—*Skips channels not of current interest.*
- ***Scan Delay***—*Lets you set a delay so that replies to calls will be heard before scanning resumes.*
- ***Display Messages***—*Display flashes verbal messages to aid in programming.*
- ***External Antenna Jack***—*Permits maximum reception*
- ***External Speaker Jack***—*Standard connection allows use of external speaker.*
- ***AC or DC***—*Use at home or on the go. AC Home Power Cord included.*
- ***Telescoping Antenna***—*Electronically optimized for all frequencies, included.*
- ***UL Listed/FCC Certified*** *Assurance of quality, American made design and manufacturer, made in USA.*

Scanner World Special
REGENCY Z30
$129.99
(plus $5.50 shipping each)

Optional Accessories:
Cigarette Lighter Plug RGMPC . $4.95
Z Mobile Bracket — ***Special*** . . . $5.99



The Regency Z30 is a compact, programmable 30 channel, multi band, FM monitor receiver for use at home or on the road. It is double conversion, super heterodyne used to receive the narrow band FM communications in the amateur, public safety and business bands: 30-50, 144-174, and 440-512 MHz. Size 10¾"Wx2-7/8"Hx8-3/8"D.

Sophisticated microprocess-controlled circuitry eliminates the need for crystals, instead, the frequency for each channel is programmed through the numbered keyboard similar to the one used on a telephone. A "beep" acknowledges contact each time a key is touched. The Z30 scans approximately 15 channels per second.

Any combination of two to thirty channels can be scanned automatically, or the unit can be set on manual for continuous monitoring of any one channel. In addition, the search function locates unknown frequencies within a band.

Other features include scan delay, priority and a bright/dim switch to control the brightness of the 9-digit Vacuum-Fluorescent display. The Z30 can be operated on either 120 VAC or 12 VDC. Includes one year warranty from Regency Electronics (optional 3 yr extended warranty only $35, gives you a total of 4 yrs complete warranty or 2 yr extended warranty only $25, gives you a total of 3 yrs complete warranty.)

REGENCY HX1200

Digital programmable 45 channel hand-held Scanner. Frequency coverage 30-50MHz, 118-136MHz, 144-174MHz, 406-420MHz, 440-512MHz. Covers public service bands plus Aircraft. Has priority, search, lockout, scan plus much more. Package includes HX1200, AC charger/adapter, ni-cad battery, carry case, rubber antenna and 90 day factory warranty.

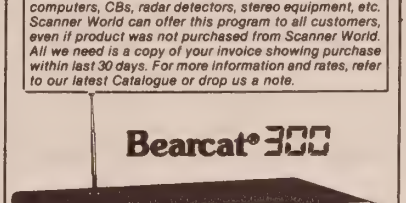
Complete package only . . . . **$216.95** *(6.50 shipping)*
(3 year extended warranty only $35.00, 2 year $25.00)

BEARCAT 50XL Programmable Hand-Held	124.99	(5.00)
AD100U AC Adapter/Charger for 50 XL	12.95	(*)
BP50 Ni-Cad Battery Pack for 50XL	12.95	(*)
BEARCAT 180 AC Digital Scanner	159.99	(5.00)
BEARCAT 140 AC Programmable Scanner	94.99	(5.00)
BEARCAT 145XL AC Programmable Scanner	104.99	(5.00)
BEARCAT 175XL AC Digital Scanner	159.99	(5.00)
BEARCAT 100XL Digital Hand-held	199.99	(6.50)
BEARCAT 210XW AC/DC Digital Scanner	199.99	(6.50)
BEARCAT 15 AC/DC Crystal Scanner	99.99	(5.00)
BEARCAT 20/20 AC/DC Digital Scanner	229.99	(5.50)
BEARCAT 260 AC/DC Digital Scanner	219.99	(6.00)
BEARCAT 300 AC/DC Digital Scanner	239.99	(7.00)
BEARCAT 800 XLT AC/DC Digital Scanner	319.99	(6.00)
BEARCAT DX-1000 Shortwave Receiver	439.99	(12.00)
REGENCY HX-1200 Digital Hand-held 45 Channel	216.95	(6.50)
REGENCY MA-257 Cigarette cord for HX1000/1200	16.99	(*)
REGENCY MA-917 Ni-cad Battery for HX1000/1200	24.99	(*)
REGENCY HX-CASE Hvy Leath. case for HX1000/1200	34.99	(*)
REGENCY MA-256 Drop in charger for HX1000/1200	69.99	(3.50)
REGENCY R-1060 Programmable 10 chan. AC Scanner	94.99	(5.00)
REGENCY HX-2000 Digital Hand-Held	299.99	(6.50)
REGENCY MX-3000 AC/DC Digital Scanner	198.99	(6.50)
REGENCY MX-4000 AC/DC Digital Scanner	319.99	(6.50)
REGENCY MX-5000 AC/DC Digital Scanner	329.99	(6.50)
REGENCY MX-7000 AC/DC Digital Scanner	399.99	(7.00)
REGENCY Z-30 AC/DC Digital Scanner	129.99	(5.50)
REGENCY Z-45 AC/DC Digital Scanner	159.99	(5.00)
REGENCY Z-60 AC/DC Digital Scanner	178.99	(5.50)
Mobile Mounting Bracket for Z Scanners	5.99	(*)
REGENCY D-810 AC Digital Scanner	178.99	(5.50)
REGENCY ACT-R-106 AC/DC Crys. Scanner	96.99	(4.50)
REGENCY ACT-R-1 AC/DC Crys. Single Channel	75.99	(4.00)
REGENCY RH-256 High Band Transceiver	399.99	(7.75)
REGENCY UC 102 Hi-VHF Hand Transceiver	119.99	(5.50)
REGENCY RU150B UHF Transceiver	439.99	(7.75)
Book "Top Secret Registry of Gov't Freuency"	12.95	(*)
Book "Covert Intelligence, Electronic Eavesdropping"	8.95	(*)
Book "Betty Bearcat Frequency Directory"	14.95	(*)
Book "Rail Scan Directory"	7.95	(*)
Book "Air Scan Directory"	12.95	(*)
RCD MRP-1 Single Channel Hand-Held	38.99	(3.00)
JIL SX-200 AC/DC Digital Scanner	189.99	(6.75)
JIL SX-400 DC Digital Scanner	399.99	(12.00)
FANON M8HLU DC Crystal Scanner	99.99	(5.00)
FANON PSK-1 AC Adapted for M8HLU	12.99	(*)
FANON Slim-8 HLU Crystal Hand-held Scanner	98.99	(5.00)
FOX BMP-1060 AC/DC Digital Scanner	129.99	(5.50)
FOX Mounting Bracket for BMP-1060	9.99	(*)
WHISTLER Spectrum Radar Detector	199.99	(5.00)
WHISTLER Remote Spectrum Radar Detector	199.99	(5.00)
ANT-1 Magnet Mount Mobile Scanner Antenna	29.99	(3.00)
ANT-6 Base Scanner Antenna w/50' cable	29.99	(3.00)

EXTENDED WARRANTY PROGRAM
2 EXTRA YEARS — ONLY $25.00

Scanner World is pleased to offer extended warranty protection on your scanner purchases. For a one time charge of only $35.00, we will provide you with 3 additional years of warranty protection after your original warranty expires. *Extended warranty program is available for all types of electronics such as two-way radios, scanners, TVs, VCR, 35mm cameras, personal computers, CBs, radar detectors, stereo equipment, etc. Scanner World can offer this program to all customers, even if product was not purchased from Scanner World. All we need is a copy of your invoice showing purchase within last 30 days. For more information and rates, refer to our latest Catalogue or drop us a note.*

Bearcat® 300



Special $239.99 (7.00 shipping)

50 Channels — Mobile/Base

Features include simple raised button keyboard programming of the following frequency ranges: 32-50 MHz, 118-136 MHz, 144-174 MHz, 421-512 MHz. Vacuum flourescent dipslay, dim control, priority, count transmissions, non-volatile memory retains memory without power back-up, automatic search, scan speed control, automatic search, scan delay, lockout, service search, automatic squelch, crystalless, digital clock, external speaker & tape jack, auxiliary equipment control, plus much more. Built inside the rugged metal cabinet. Includes AC & DC cords, telescopic antenna, mobile mounting kit, and one year factory warrantee on the Bearcat 300 for only $239.00 and $7.00 shipping. (Optional extended warranty: 3 years $35, or 2 years $25.

Bearcat 100 XL

$199.99 (6.50 shipping) *Handheld digital programmable, no crystal portable scanner. 16 channels, search feature, plus more! Frequency range: 30-50, 118-174, 406-512 MHz. Included in the package is a flexible rubber antenna, earphone, battery charger/AC adapter, 6 AA Ni-Cad rechargeable batteries and a heavy duty carry case. All for the low price of:*

$199.99 (6.50 shipping)
(3 year extended warranty only $35.00, 2 year $25.00)

REGENCY RH-256 B
PROGRAMMABLE TRANSCEIVER

RH-256B Transceiver, 16 channel 12 VDC 2-way Radio fully programmable in transmit and receive mode. Includes built-in CTCSS tones for encode/decode, time-out timer, scan delay, 25 watts transmit power, priority, plus more. Frequency spread as shipped 152-158 MHz. Package includes mobile mike, bracket, mobile antenna, and all cables and instructions for installation. ***Special package deal only:*** **$399.99** *(7.75 shipping)*
(2 year extended warranty $49.00 — 3 year $69.00)

ORDERING INFORMATION

Call (518) 436-9606 to place orders by phone or mail orders to ***Scanner World,*** 10 New Scotland Av., Albany, NY 12208. Orders will be shipped same day received by United Parcel Service. ***Scanner World*** accepts VISA, MasterCard (COD shipments by United Parcel will be for cash or certified checks only). Mail orders with personal or business checks will be held 4 weeks for bank clearance. Orders with cashiers checks or money orders shipped same day received. Prices, specifications and terms subject to change without prior notice. If items are out of stock we will backorder and notify you of delivery date. All shipments are F.O.B. ***Scanner World*** warehouse in Albany, NY. We are not responsible for typographical errors. All merchandise carries full manufacturers warranty. Bid Proposals and Purchase orders accepted from Government agencies. Free full line catalogue available upon request. No minimum order. New York State Residents add 7% sales tax.

SHIPPING CHARGES

(*) Add ($) per scanner, and $3.00* for all accessories ordered at same time. C.O.D. shipments will be charged an additional $3.00 per package. Full insurance is included in shipping charges. All orders are shipped by United Parcel Service. Shipping charges are for continental USA only. Outside of continental USA, ask for shipping charge per scanner.

Scanner World, USA
10 New Scotland Ave., Albany, NY 12208
(518) 436-9606
Most orders Shipped Same Day Received!

PAID ADVERTISING

assigned to the SMRS operator. Additionally, when a system is sold, the new owner will now only be required to supply a list of the users to the Commission and keep the list with their license.

The Commission has adopted a simplified licensing procedure for Aeronautical Advisory (or Unicom) stations in cases where there is more than one applicant at an airport. Unicom stations provide weather, runway condition and other safety related data at uncontrolled airports, as well as information on fuel or maintenance availability. Unicom service is usually provided by operators of general aviation service facilities, although they are required to provide unicom service without discrimination. For reasons of safety, only one unicom station is permitted at an airport (except at controlled airfields, where the tower would normally provide air traffic control services.) When there is more than one applicant for a unicom license (usually at license renewal time), the Commission presently holds time-consuming comparative hearings to determine the most capable licensee. Although they have the authority to use a lottery process, the Commission has decided to use a Summary Procedure (or "paper hearing") for this service. Applicants will submit a written showing of their case and the Commission will then select the licensee best able to provide the service on the basis of that showing.

The FCC has adopted rules that make Amateur Radio repeater operators mutually responsible for the resolution of interference between stations. The Commission declined to require a national coordinator for Amateur repeater stations, but instead to require that an individual or organization be recognized in each area as the coordinator. They still will encourage the development of a national repeater data base, though, as well as a national unbrella group overseeing the local coordinators. In case of interference between repeaters, one of which is <u>not</u> coordinated, that operator will be primarily responsible for resolution of interference.

The Commission has issued a proposal that would allow increased power and antenna height on 12.5 kHz offset channels in the 450 mHz band in the Special Industrial Radio Service. Power up to 20 watts ERP and antenna heights of up to 100 feet would be permitted on the ten offset channels that are available exclusively in this service, namely 451.7875 through 452.0125 mHz (in .025 mHz steps). Present limits are 20 feet and 2 watts and operation is on a secondary basis. The Commission is not proposing any mileage separation standards since they believe effective use of these channels can be made through proper coordination with adjacent channel users, especially since these adjacent channels are in the same service.

In response to a number of petitions, the FCC is proposing to allow Novice Amateur radio operators to use portions of the 28, 220-225 and 1240-1300 mHz bands using voice emissions. Novice operators are presently allowed use of small segments of four HF bands, using Morse code only. It is hoped that, if adopted, this proposal will reverse the decline in the number of Novice amateur radio operators, of which there are 10,000 fewer today than two years ago.

Another recent proposal would simplify individual licensing of aircraft stations in the 454 mHz Public Air-to-Ground Radiotelephone service. As envisioned, the applicant would fill out an application form, retain a copy of it and mail the original to the Commission. An alternative is to allow "blanket licensing" of all users under the license of the Common Carrier providing the air-to-ground radiotelephone service, similar to the process in the land mobile radiotelephone services. In either case the Commission would no longer assign call signs. The aircraft tail number would serve as identification.

Yet another proposal would allocate the channels made available last fall in the 421 - 430 mHz band in Buffalo, Cleveland and Detroit (1/86 column). Under the plan, Cleveland and Detroit would receive 3.05 mHz of paired spectrum (6.1 mHz total), providing for 112 25 kHz channel pairs and an additional 20 simplex channels. Buffalo would receive 2.85 mHz of spectrum, allowing for 47 channel pairs and 20 single channels. The channels in all cities would be divided equally between the Public Safety services and the Industrial/Land Transportation services. Cleveland and Detroit were allocated channels in the 470 - 512 mHz T-band years ago but are unable to use them because of interference with Canadian TV stations and all three cities received few channels in the 800 mHz band under the sharing agreement with Canada.

Finally, the Commission proposes to allow sharing of 800 mHz frequencies between catagories of services. Presently, channels in parts of the 800 mHz band are divided among four user groups - Public Safety,

Industrial/Land Transportation, the Business Radio Service and the Specialized Mobile Radio Service. (See Feb., 85 column.) This proposal would allow SMR's to apply for frequencies in the Business or Industrial/Land Transportation pools if their trunked systems are loaded to capacity (or greater) and there are no additional SMRS frequencies available. Similarly, users in the Business or Industrial pools would be eligible to apply for SMRS pool frequencies if none are available in their own group (although this would rarely be the case).

FEDERAL GOV'T and MILITARY

Send all Federal Government and Military frequencies (including those of military aircraft), radio system details, and related questions to:

Dennis Biagioli, 607 W. Pleasant Ave. Villa Park, IL 60181

Sensitive frequencies will not be published. Coast Guard material must go to the VHF Marine editor.

Hi! Here is what I hope will be an interesting bit of information for you. The frequency listings were provided by the members listed at the end of the table. The narrative is by Fred Richter (NM-005). Perhaps you'll remember his excellent Bureau of Land Management article. Our thanks to all the members and friends who contributed.

UNITED STATES FOREST SERVICE

The Forest Service became an agency within the U.S. Department of Agriculture (USDA) on February 1, 1905. On that same date the forest reserves, which had been administered by the General Land Office in the Department of Interior since a law providing for their creation in 1891, were transferred to the Forest Service. A Division, and later a Bureau, of Forestry existed within the Department of Agriculture since 1898 but had no land management duties and was mainly a research and consulting agency. In 1905, when the Agency was renamed the Forest Service, they took over sixty forest reserves totaling some fifty-six million acres and seven hundred thirty-four employees. In 1907 Congress renamed the "forest reserves" as National Forests.

Since that time the National Forest system has grown to include one hundred fifty-five National Forests and nineteen National Grasslands, encompassing approximately one hundred ninety-one million acres in forty-two states and Puerto Rico. The Forest Service is the largest and most diverse agency in the Department of Agriculture. It's twenty-one thousand permanent employees, plus seasonals, make up thirty-five per-cent of the USDA's peak employment.

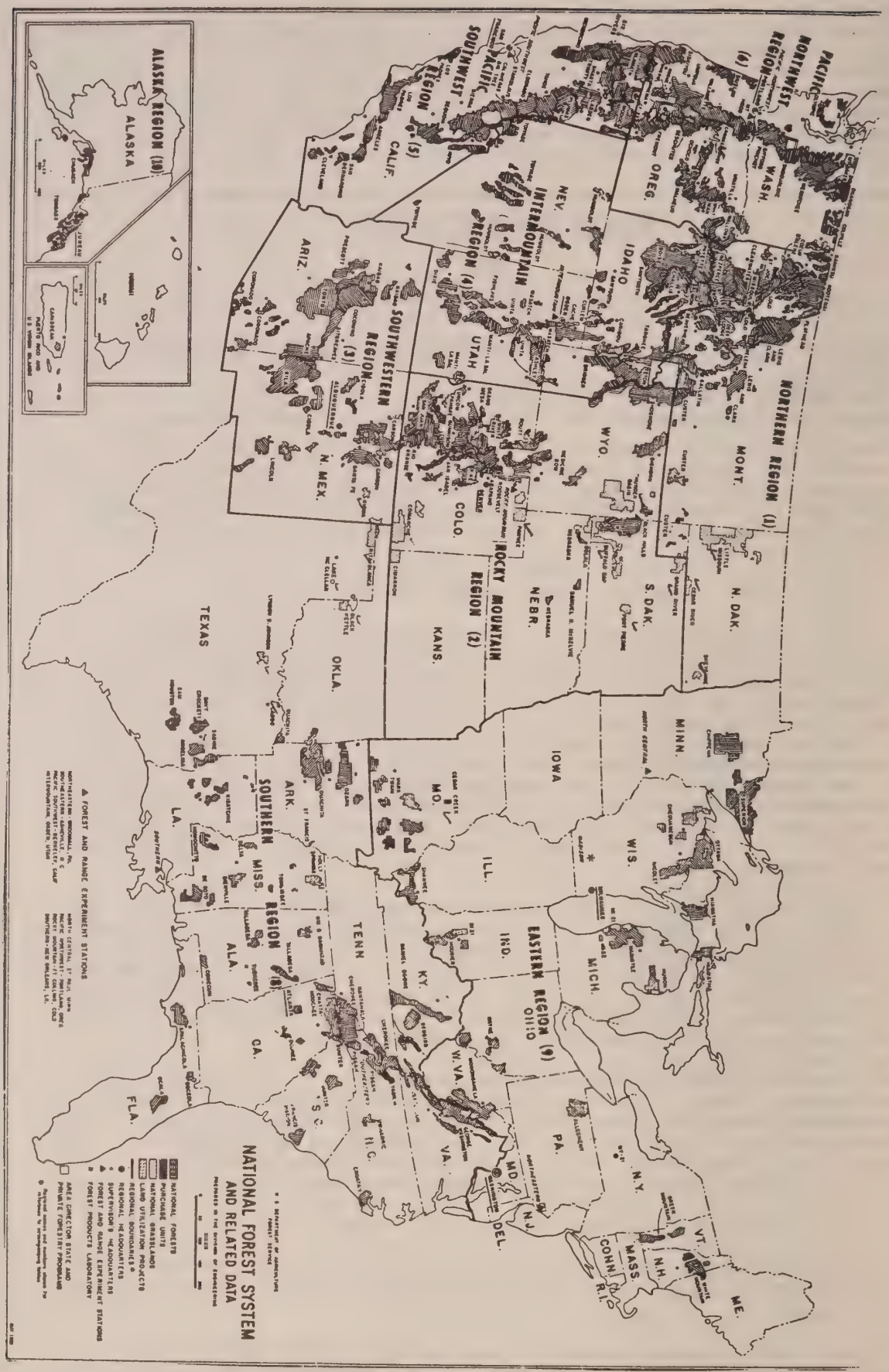
Forest Service employees handle practically every imaginable natural resource task from improving the beauty of the forest to showing strip miners how to rehabilitate the land to managing more than seventy-five per-cent of the nation's designated wilderness to fighting large woodland fires. These are just a portion of the hundreds of tasks the Forest Service undertakes each year.

Forest Service activities cover three major areas:

1) National Forest System -- management, protection and use of the National Forests and Grasslands for a sustained flow of economic and social benefits.

2) State and private forestry -- cooperation with state foresters, private forest and woodland owners, wood processors and private and public agencies. This activity is designed to improve the scientific management of state and private owned forest lands.

3) Research -- scientific research in forestry and forest products that supports the management of the National Forest system and cooperative forestry programs.



Each of these above areas has an organization of employees, with the greatest being in the National Forest system. Since that system is the activity which the public has the most direct contact with and which is the most interesting for the scanner listener, it will be the only organization discussed in detail. You may see separate frequency listings for experimental forests from time to time and it

is sufficient to know this is a separate organization from the Washington level on down.

The Forest Service is headed by a chief who has a deputy chief for each of the three previously discussed activities. The National Forest system is divided into nine regions, each headed by a Regional Forester. The nine regions are as follows:

Region	Name	Office Location
1	Northern	Missoula, Montana
2	Rocky Mountain	Lakewood, Colorado
3	Southwestern	Albuquerque, New Mexico
4	Intermountain	Ogden, Utah
5	Pacific Southwest	San Francisco, California
6	Pacific Northwest	Portland, Oregon
8	Southern	Atlanta, Georgia
9	Eastern	Milwaukee, Wisconsin
10	Alaska	Juneau, Alaska

Region 7 was consolidated into regions 8 and 9 in the early 1960's.

Working under the Regional Foresters are one hundred twenty-two Forest Supervisors. Many of these Forest Supervisors have more than one of the one hundred fifty-five National Forests assigned to them due to geography, size and complexity of activities. National Forests are further divided into Ranger Districts, with a District Ranger in charge of each. There are currently over six hundred and fifty districts. A typical region has twelve to twenty National Forests, and a typical forest has three to eight districts. Again, this depends on geography, size and complexity. Grasslands do not have their own supervisor. They are assigned to the nearest National Forest Supervisor and are organized into one or more Ranger Districts.

The Washington office, regions, forests and districts are typically organized around the five multiple uses made of National Forests: timber, grazing, recreation, wildlife and watershed. Plus, there are other support activities such as lands (real estate management), engineering, business management and fire management. Minerals management typically is put into the lands organization along with special uses management (electronic sites, dams, powerlines, resorts, etc). There are one hundred sixty categories of special use permits.

The Ranger Districts is the working on-the-ground- level of the Forest Service. The recreating public probably makes ninety-eight per-cent of their contacts with Ranger District personnel. A district is always headed by a District Ranger, who typically has the following primary assistants (some districts substitute the words "staff" of "assistant" in these titles):

1) Business Management Assistant -- performs or heads clerical functions.
2) Resource Officer -- range, wildlife and watershed. May also have timber on low timber volume districts.
3) Timber Management Officer
4) Recreation and Lands Officer -- may be split into two positions in complex districts.
5) Fire Management Officer

Employees, uniformed or not, are of three different types: technician, clerical or professional. Since only one employee per district has the title "Ranger" (the District Ranger), not all uniformed employees are Rangers. But they will generally answer to "Ranger" since most of the public calls them that anyway. All three types of employees work for one of the District Rangers primary assistants.

For the scanner listener, the Forest is the most important of all these levels because this is the level that nearly all of the communications systems are designed. Each of the one hundred

twenty-two Forest Supervisors Office (S.O.) has one or more frequencies in a radio system designed to cover the area and meet the communications needs of the forest (or forests) within its jurisdiction. Each S.O. has its own dispatcher.

The typical Forest network (or "net") has a two channel position system. F-2 is a repeater pair, and F-1 is a simplex "talk-around" (using the repeater output frequency). The coverage of some forest's systems is such that two simplex frequencies are needed.

The call assignment system for the various units differs greatly from forest to forest. Even more variation is found between regions. Some use individuals last names only, and numbering systems for fire equipment. In Region Three most Forest Dispatchers are called "Dispatcher" on the air. In Region Five all forests answer to the forest name ("Inyo", "Sierra", etc.). Most forests that use a numeric system for units and personnel do include the district number in the call, e.g. "Two-One" would be the District Ranger of a District Two forest.

Supervisor's Office personnel answer to either the name of the Forest followed by a number or to a number assigned specifically to the S.O. For example, "Coconino Three" is the Forest Fire Management Officer (F.M.O.), while "Six-Two" is the F.M.O. on the Inyo, where there are four districts and they use the number "six" to designate the S.O. units. Districts are numbered geographically (such as North to South), or alphabetically (by name), or not in any logical order at all due to past consolidations.

Most regions have a Regional Dispatcher who makes allocations of resources between forests within regions, with Region Five having North and South Zone Dispatchers within the region. The Boise Interagency Fire Center coordinates between regions and agencies. Most Regional Dispatchers do not link with the forest via a voice radio link but have only an air dispatch radio (168.6250 MHz) for handling aircraft dispatching at an adjacent airport. Region Five is unique with its North and South Zone Radio Nets.

New technology is providing programmable radios which have helped the development of multiple forest nets, each with repeater capabilities. On many forests the need to order the national (BIFC) radio cache is being eliminated for all but the largest fires. The nationwide linking of all offices by a computer network called FLIPS (Forest Level Information Processing System) is eliminating the need for zone and regional voice radio networks.

Many think that fire fighting is the primary Forest Service job. Surprisingly,. the multiple use management of the National Forests far outweighs the amount of time and energy spent in fire fighting.

Our deep gratitude to Fred for explaining this agency to us. He also provided a ma, which will be found nearby (where space permits).

Next month will have the complete national rundown as provided in response to our request for frequencies.

Have a great month.

73-

Denny

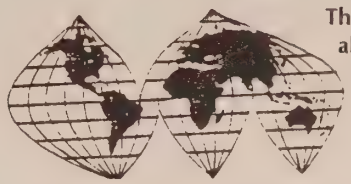
COMMUNICATIONS PROFILE

Joe M. Lewis, 750 Scotland St., Dunedin, FL 33528

This column is for special projects that explain various systems in detail. Frequencies and radio codes of not only municipal agencies and certain federal government agencies may be listed, but also large businesses and corporations. The contribution must be lengthy enough that publishing it in one of the regular columns would not be possible. If you are inclined to submit a report as the one below appears, please follow No. 8 in the inside front cover of the Newsletter.

NO COLUMN THIS MONTH

INTERNATIONAL



This column is for reporting two-way communications frequencies above 30 MHz, radio system details, monitoring experiences, and any other information relating to monitoring in countries other than the United States and Canada. Send to:

Rickey Stein, 456 Barrymore Place, North Brunswick, NJ 08902

I am going to continue with the information on the Republic of Ireland which was started last month.

DUBLIN COUNTY

Light and Power: Electricity Utility

Electricity Supply Board, Dublin:

The E.S.B. (a semi-state corporation) operates a state-wide simplex net of all listed channels (25kHz spacing) in the range 70.9500- 71.9500. The following have been identified.

70.9500 Dundrum	71.0500 Fleet St./Bedford Row, Dublin
71.2500 Dublin NW	71.3250 Finglas
71.4500 Blanchardstown	71.5500 Kilcock
71.9500 Stillorgan	

Point-to-point link:
Inchiore/Howth 165.4000/170.2000

Gas Ultilty

Bord Gais (Irish Gas Board):

This semi-state organization supplies natural gas from the Kinsale gas field to Dublin via a gas pipeline. The following frequencies are reported in use.

72.0875/82.0875 Pipe line construction
456.9375/462.4375 457.1625/462.6625 456.2750/462.7750

New Dublin Gas Co., Dublin

Supplies gas to consumers in Dublin Metropolitan area.

Base/Vehicle		Base/Vehicle	Notes
87.4000/?	(AM)	454.6000/468.6000	repeater

City Gas
Natural gas conversion contractors for New Dublin Gas Co.
83.0375/73.0375 Not discrete frequency. Talkthrough on 83.0375

Other Police Forces:

Dublin Airport:
Airport Police Force:
461.8250/456.3250 Base/Mobile Talkthrough on 461.8250

Dublin Port and Docks Board:
Harbour Police Force:
460.2750/453.7750 Base/mobile

Private Security Forces:
Shopping Mall Security:

Irish Life Mall, Dublin
456.0750/461.5750 Base/ Patrolmen

ILAC Centre, Dublin
164.9250/160/4250 Base/ Patrolmen

University Security:

Dublin University:
Trinity College, Dublin
453.5750/460/0750 Base/Patrolmen

National University:
University College, Belfield, Dublin

453.1250/459.6250 Base/ Patrolmen

Transport:

Coras Iompair Eireann:

C.I.E. operates a bus and train control system. Bus depots use the call sign "Control" and vehicles identify with their running number and route; e.g. "Control to the third Donnybrook".

Depot	Base/Vehicle	Base/Vehicle
Phibsboro	166.0000/170.8000	
Phibsboro	166.0250/170.8250	
Donnybrook 1	166.0500/170.8500	
Donnybrook 2	166.0750/170.8750	
Phibsboro	166.1000/170.9000	
Clontarf	166.1250/170.9250	
Railway	166.1500/170.9500	454.7250/468.7250 (rept.)
Express Bus	166.1750/170.9750	
Railway	166.2000/171.0000	
Ringsend	166.2250/171.0250	
Railway ?	166.2500/171.0250	454.7000/
Conyngham Rd.	166.2750/171.0250	
Maintenance	166.3000/171.1000	
Donnybrook	166.3500/171.1500	
Railway	166.3750/171.1750	462.1123/456.6125 (rept.)
Summerhill	166.4000/171.2000	
Ringsend	166.4250/171.2250	
Summerhill	166.4500/171.2500	
Donnybrook	166.4750/171.2750	
?	166.5000/171.3000	454.4750/468.4750 (telemetry)
Railway		453.0250/459.5250
Railway		453.1750/459.6750
Railway		453.2250/459.7250

••••

That's about all until next month.

MARKETPLACE

Gary M. Darcy, Editor

Members may advertise, free of charge, items wanted, items for sale, items for trade that are associated with the hobby of monitor/utility radio listening. No dealer ads will be accepted for this column. RCMA assumes no responsibility for the outcome of any transactions between members resulting from ads printed in this column. Send to:
RCMA MARKETPLACE, c/o Gary M. Darcy, P.O. Box 1329, Palmdale, CA 93550

Please be sure to include your membership number.

All Marketplace ads will be accepted ONLY on special forms available from this column's editor. Send a self-addressed STAMPED envelope (business size) to the address above to receive a supply of forms. Foreign members do not need to include postage on envelopes they send.

NO COLUMN THIS MONTH

MONITORING & THE LAW

Send all articles on, references to, and copies of monitoring laws, as well as questions concerning the legal aspects of monitor radio listening to:

COLUMN EDITOR WANTED

FOR IMMEDIATE RELEASE

Contact: Robert Horvitz
(202) 232-3677

House Committee Passes New Electronic Communications Privacy Act

Washington, DC (10 June 1986)---Just a few weeks ago, the Electronic Communications Privacy Act, H.R. 3378, was reported out of Subcommittee. Today, however, a substitute bill was introduced at a meeting of the House Judiciary Committee and, after a brief discussion, the Committee approved the new bill by a vote of 34-0. Designated as H.R. 4952, the new Electronic Communications Privacy Act will now be scheduled for consideration on the floor of the House of Representatives.

A significant difference between H.R. 4952 and H.R. 3378 is that H.R. 4952 adopts the definition of "interception" proposed by the Association of North American Radio Clubs (ANARC) last February: "acquisition of the contents" of a communication. This is the definition currently used in the federal law protecting oral and wire communications.

The definition used in H.R. 3378 was "interception of the transmission of the contents." That would have made it a crime merely to detect the presence of an encrypted signal without any attempt being made to penetrate the protective code - that is, without any actual violation of communications privacy.

ANARC had protested this on many occasions as excessive and unfair, pointing out that merely looking at the garbled picture of an over-the-air subscription TV service, such as channels 50 and 54 used to broadcast in the Washington area, would be a federal crime. H.R. 3378's definition would also have made the radio spectrum into a "minefield" for shortwave listeners and scanner owners, as encryption spreads in bands otherwise open to recreational monitoring.

Another change of significance to radio hobbyists is H.R. 4952's clear statement that all marine and aeronautical communications may be legally received, so long as the content is not divulged or used.

Like H.R. 3378, H.R. 4952 would make the unauthorized interception of electronic communications that are not "readily accessible to the general public" a federal crime carrying a penalty of up to a year in jail and/or a fine of up to $10,000. Intercepting the radio portion of a cellular phonecall would be a petty offense punishable by up to 6 months in jail and/or a fine of up to $500. The bill would not protect tone pagers or cordless telephones.

Also like the previous bill, H.R. 4952 declares certain radio communications to be not "readily accessible to the general public" - and thus entitled to federal protection - even though they can in fact be tuned in by anyone with the proper equipment. The "inaccessibles" include: common carrier transmissions; remote broadcast auxiliary transmissions [defined in FCC rules part 74 (d,e, and f)]; FM subcarrier and subsidiary services (including videotex); private microwave services; satellite transmissions (with certain exceptions); and signals that are scrambled, encrypted or "transmitted using modulation techniques whose essential parameters have been withheld from the public with the intention of preserving the privacy of such communication".

It would not be unlawful under H.R. 4952 to monitor any transmission that "relates to ships, aircraft, vehicles, or persons in distress;" any amateur (ham), CB or General Mobile Radio Service transmissions; or "any governmental, law enforcement, civil defense, or public safety communications system, including police and fire, readily accessible to the general public."

As we currently understand it, the only signals in the shortwave band that would be illegal to monitor are the handful of remote broadcast auxiliary stations still operating around 26 MHz. In other parts of the spectrum, radio common carriers would be protected; broadcast auxiliary and remote broadcast pick-up links around 152, 161 MHz and in the

microwave band; private microwave systems; and subsidiary services, like FM subcarriers and videotex transmissions in the blanking interval of television broadcasts.

Although satellite transmissions are defined as "inaccessible," this, according to the bill's drafters, is only meant to avoid legalizing reception of satellite signals generally. Rep. Robert Kastenmeier, principal sponsor of the bill, has indicated that they wanted to leave most questions about what can and cannot be legally monitored by satellite dish owners to the Telecommunications Subcommittee, which is studying the issue now.

Since the first draft of The Electronic Communications Privacy Act was introduced last September, the question of how to treat the interception of radio communications by private citizens who have ready access but no criminal, commercial or harmful intent, has been a volatile issue. Because the ten thousand members of ANARC's eighteen associated clubs have just this sort of access, by virtue of our hobby interests, we have a clear stake in this bill, and have played an active role in the debate surrounding its drafting.

We support the goal of amending the US Code to protect the privacy of new forms of electronic media - but only those media that have a reasonable expectation of privacy. For all its legislative authority, Congress cannot rewrite the laws of physics. If a radio signal addressed to one party can be received in another party's home, it is because that signal is intruding into the other party's home. To criminalize that other party for detecting the intrusion is as unfair and it is absurd.

Although H.R. 4952 is a marked improvement over H.R. 3378, we continue to believe that radio signals that are in fact readily accessible to the general public should be recognized as such in law, and be governed by the provisions of Section 705 of the Communications Act of 1934. In our view, the penalties in H.R. 4952 for harmless interception of cellular and other allegedly inaccessible radio communications are still excessive and inappropriate.

RCMA and ANARC encourage you to use the wording of the form letter below and write your Congressman.

The Honorable [ ]
U.S. House of Representatives
Washington, D.C. 20515

Dear Representative [ ]:

I am writing with regard to H.R. 4952: the Electronic Communications Privacy Act of 1986.

Despite the bill's good intentions, passage of H.R. 4952 will not materially reduce the vulnerability of radio communications to interception. Congress cannot rewrite the laws of physics. Even the sponsors of the bill acknowledge that key parts of it are unenforceable.

If I can tune in a signal in my own home, that is because that signal is intruding into my home. To make me a criminal for detecting this intrusion is as unfair as it is absurd.

Because H.R. 4952 declares certain radio signals to be not "readily accessible to the general public" even though they actually are, every citizen would be exposed to criminal liabilities for receiving these "inaccessible" signals. For example, cellular radiotelephone calls can be picked up by ordinary unmodified television sets on channels 80 to 83. If this bill becomes law, I would risk 6 months in prison and a fine of up to $500 for willfully tuning my TV to the top of the dial!

I urge you to oppose H.R. 4952, or support amending it so that radio signals which are in fact readily accessible to the public continue to be protected under the Communications Act of 1934. This is the only reasonable policy to follow when the transmission mode itself makes a communication receivable by anyone.

Sincerely,

NEWS MEDIA COMMUNICATIONS

This column is for reporting frequency and radio systems information of news media. Send related reports and questions on newspaper, radio, television, magazine, film production companies, etc. to:

Allen G. Henney, MD-069, 6912 Prince Georges Ave, Takoma Park, MD 20912

THIS MONTH WE HAVE AN EXCELLENT MEDIA PROFILE FOR CHICAGO WHICH WAS DONE BY MICHAEL YANUL (IL-Ø14). BY LOOKING AT HIS LIST YOU CAN SEE THE MANY YEARS OF RESEARCH THAT MICHAEL HAS SPENT COLLECTING HIS CHICAGO MEDIA FREQUENCY LIST. MICHAEL HAS BEEN COMPILING & UPDATING THIS FREQUENCY LIST FOR ALMOST 1Ø YEARS. THOSE OF US WHO PUT THAT MUCH WORK INTO A FREQUENCY LIST CAN REALLY APPRECIATE THE EXTENSIVE RESEARCH THAT MICHAEL HAS DONE. IT IS VERY KIND OF HIM TO SHARE THIS INFORMATION WITH THE REST OF US. HE ALSO NOTES, THAT THE ONLY INFORMATION WHICH APPEARS ON THE CHICAGO MEDIA FREQUENCY LIST IS THAT WHICH HAS BEEN CONFIRMED.

MICHAEL ALSO POINTS OUT THAT THE 'BIGGEST THREAT' TO US MEDIA MONITORS IS THE INCREASING USE OF CELLULAR MOBILE TELEPHONES. THE USE OF VOICE PAGING IS ANOTHER FAVORITE OF THE MEDIA. IF YOU EVER HEAR THEM SAY 'LISTEN TO YOUR PAGER & WE WILL TELL YOU THE LOCATION' THEN TRY SEARCHING THE PAGING FREQUENCIES. I HAVE FOUND THE PAGING FREQUENCIES USED BY 2 LOCAL TV STATIONS WHO BOTH SHARE THE SAME RADIO COMMON CARRIER FREQUENCIES. MICHAEL HAS DONE A BEAUTIFUL JOB TYPING HIS FREQUENCY LIST. EXCELLENT WORK LIKE THIS IS FREQUENTLY 'LIFTED' WITHOUT CONSULTING THE AUTHOR - WE APPRECIATE MICHAEL SHARING HIS PRICELESS FREQUENCY LIST WITH ALL OF US. THANKS AGAIN MICHAEL!

HAVE A GOOD SUMMER EVERYBODY...

CHICAGO NEWS MEDIA Compiled & verified by Michael (IL-014)

TELEVISION STATIONS

WLS-TV Channel 7 (ABC owned and operated)

455.0875	Local and Network newsdesk. Frequency 1 (KJM-544)
455.1500	Back-up frequency for program audio to remote units.
455.2500	Back-up local newsdesk. Frequency 2
455.4500	Secondary engineering & local newsdesk. Frequency 4 (KJM-544)
455.5125	Program audio & studio cues to remote units.
455.5875	Master Control ("MC") & Studio "B" cues to remote units and Skycam. Secondary network usage. Frequency 3 (KJM-544)

WBBM-TV Channel 2 (CBS owned and operated)

161.6400	Network Sports - Bears games and Chicago Marathon. Cues to sportscasters and helicopters.
450.0500	Local news control base to mobiles Frequency 1 and mobile to mobile communications Frequency 3 (KVF-938).
450.3500	Master Control & Studio cues to remote cameras and back-up frequency for news control base. Frequency 2 (KVF-938)
450.4875	Program audio & studio cues to remote reporters. Frequency 5
450.6125	Network news reporters & couriers. (WQA-972) (Repeater)
450.8000	Master Control engineering & network sports cues to cameras. Frequency 4 (KVF-938)
455.0500	Mobile "Talk Back" to news control base on frequency 1.
455.3500	Mobile "Talk Back" to frequency 2 (Helicopter Frequency)
455.8000	Mobile "Talk Back" to frequency 4 (KVF-938)

WMAQ-TV Channel 5 (NBC owned and operated)

161.6400	Back-up frequency for Studio "A". Frequency 5 (KSJ-871)
161.6700	Newsdesk Frequency 1 (KSJ-871)
161.7000	Back-up frequency for newsdesk. Frequency 2
161.7600	Primary Studio "A" frequency. Cues to remote cameras. Freq.4 (KSJ-871)
450.5500	Program audio & Studio "A" cues to remote reporters. (KDQ-471)

450.8500 Master Control engineering. (KDQ-471)
455.5500 "Talk Back" to Studio "A" (production studio)
455.6500 Remote units to Master Control. (KDQ-471)

WGN-TV Channel 9 (Chicago Tribune Broadcasting)
166.2500 Newsdesk, Master Control & Studio cues to remote units. (KSB-840)

WTTW-TV Channel 11 (Chicago Public Television)
455.6125 Studio cues to remote broadcast units. (WSM-739)

RADIO STATIONS

WLS-AM (ABC owned and operated but now up for sale)

450.4125 Newsdesk base. Frequency 2 (KQB-334)
455.4125 Traffic Helicopter remotes. Frequency 1
455.9250 Used for remotes from Goodyear Blimp.

WBBM-AM (CBS owned and operated)

161.7000 Newsdesk and broadcast remotes. (KSJ-882)

WMAQ-AM (NBC owned and operated but now up for sale)

450.4500 Newsdesk base. (KDQ-471)
455.4500 Traffic Helicopter remotes
455.3875 Copter to Lee Traffic Radio Information Center.

WKQX-FM (NBC owned and operated but now up for sale)
450.2125 Newsroom and broadcast remotes. (KEH-468)

WGN-AM (Chicago Tribune Broadcasting)
450.2500 Traffic Helicopter remotes - "Traffic Central" desk. (KL-7870)

WFYR-FM (RKO United Stations)
450.1125 Primary newsdesk and remote broadcasts. (KKN-770) (Repeater)
450.1875 Back-up frequency (KKN-770) (Repeater)

WIND-AM (Formerly Group W talk format. New owners changed to Spanish format)
450.1500 Was a repeater freq. for newsdesk. Now simplex for engineering (KJP-974)

WCFL-AM (Formerly talk-rock format. Now a full religious format)
450.6500 Has not been in use with new owners/format. (KSE-876)

WLUP-FM (Heftel Broadcasting)
450.3875 Base (WSM-701)
455.3875 Mobiles (WSM-701)

NEWSPAPERS

CHICAGO TRIBUNE

173.2250 Metro circulation and operations (KSD-567)
452.9750 Inactive - formerly photographers (KBG-509)
453.0000 Tribune Tower & press plant (Freedom Center) security (WQP-427) (R)
852.0625 Photographers

CHICAGO SUN-TIMES

173.2750 Photographers (WZH-807)
173.3750 Circulation (KDD-915)

SOUTHTOWN ECONOMIST

453.000 Circulation and Photographers (KH-4013)

NEW PRODUCT REVIEW

This column is for reports on new products of interest to scanner listeners. Send reports on scanners, antennas, frequency publications and other products related to the hobby to:

James A. Abdu (GA-058), 1203 N. Crossing Way, Decatur, GA 30033

Hello and welcome to another New Product Review Column. This month I have a few topics to report on including the new Midwest Federal Frequency Directory, Regency HX-2000 and MX-7000 scanners and also information from the Armed Forces Communications and Electronics convention.

I received a complimentary copy of Scan America's new Midwest Federal Frequency Directory (MFFD) hot of the press and it looks great! This directory is an extension of the now out of print Ohio Federal Frequency Directory and covers federal radio operations in Illinois, Indiana, Kentucky, Michigan, Ohio, Pennsylvania, and West Virginia.

The MFFD is organized into three sections: frequency, call letters, and agency. Each section is filled with information including frequency, location, agency and call signs as well as notes, code names and tips. There is also an introduction which explains the publication and gives some background information as well as sources of additional information (including the RCMA).

The information in the MFFD appears to be comprehensive, concise and up-to-date. I can't verify frequencies or judge the accuracy of the listings because I don't live in the area covered. Many Federal frequencies are used nationwide or by the same agencies in different states. In this respect the MFFD matches many of my own listings.

The MFFD mentions some that Federal agencies are operating in the 800MHz band but acknowledges a lack of information in this area and requests listener input.

The MFFD is a handy refrence of federal frequencies and I would recommend it to anyone in the seven states mentioned and also to federal monitoring enthusiasts nationwide as the same frequencies may be in use by the same agencies in your area.

The MFFD is available from:

Scan America
430 Garner Drive
Suffield, Ohio 44260

The regular price is $8.00 ppd. but a special rate of $7.00 applies to RCMA members. I'm sure you'll be hearing more about this directory. Hopefully Scan America will advertise in the RCMA newsletter.

On to the next topic... I recently had ordered a Regency HX-2000 scanner from a reputable scanner dealer. I was looking forward to a hand-held scanner with 800MHz coverage but was disappointed when the unit arrived.

The operation on regular vhf frequecnies was dismal, at best margional. The range was not good at all, the HX-2000 would pass over active frequencies and when it did pick up activity I could usually pick up only one side of the traffic.

My Radio Shack Pro-30 is rated only about half as sensitive by the specifications but out performed the HX-2000 on all the bands they have in common. The HX-2000 seemed to work best on these frequencies without any antenna attached. The supplied antennas and external antennas actually seemed to degrade performance. The unit appeared to work fine in the 800MHz ranges, but I had nothing to compare it to.

I found the HX-2000 to be an inadequate replacement for my Pro-30 and decided to return the unit. The HX-2000 may be adequate for those mainly interested in a hand-held with 800MHz coverage. I requested that the dealer check out this unit to see if it was worse than other HX-2000's and was told that it operated normally. I was disappointed and will have to wait for an enhanced unit to be made. I am interested to hear of other members' experiences with the HX-2000.

After this experience with the HX-2000 I decided to try the Regency MX-7000. I had been interested in this unit and when rumors of a production freeze started I took a chance and picked one up. I didn't want to miss another new product (anyone remember the computer controlled CP-2100? Have any info?). Upon inspection of the MX-7000 I found a slick little unit. It is compact and powerful. I found some drawbacks such as no hold while searching and the operating speed.

While searching, if the unit stops on an active frequency you can enter the new frequency into a channel but only if it is a long transmission or you're real quick. If you go to manual mode to do this, searching will resume from the lower limit, not where it left off. I overcame this by using the squelch. When the unit finds an active frequency I turn the squelch counter clockwise to hold the station. After I enter the frequency in a channel, I release the squelch and the unit resumes searching.

The operating speed was at first disappointing, the unit has two speeds: slow and slower. I thought this would be a serious drawback until I came across a speed modification in the May issue of Monitoring Times. The modification is easy to perform but do not attempt it if you are not qualified. You may damage your unit and void your warranty at the same time.

The modification increases the operating speeds by about three or four times but creates some side effects such as decreasing the amount of time the unit will retain its memory. The modification is being investigated by Regency but as of this time I haven't heard back from them.

I modified my unit but installed the modification on a switch to check the side effects. My unit looses memory after about 12-14 hours without power with the modification and the entry conformation beeps are barely audible. I can live with these side effects and the switch helps eliminate them. I contacted Regency to inquire as to any possible long term damage to the unit and will relay any further information here or through the Tech Topics column. I may re-wire the light switch for this function when I get a chance.

As to the operation of this unit I'm very pleased. The reception is great and the unit works like a champ (especially with the modification). The frequency coverage is from 25 - 550MHz and 800 - 1300MHz with a.m., f.m. and wide f.m. modes. The search increments are 5, 12.5 or 25KHz. The unit has a priority mode, channel lockout and clock. The MX-7000 comes with side light and keyboard lock switches which are pretty much useless.

The light is small and doesn't illuminate the whole display. You can't tell the light is on in low light conditions and you can't see enough of the display in dark conditions. The keyboard lock may be a good feature in some applications but the unit is not a portible and the keyboard is slanted such that even in mobile applications there shouldn't be a problem.

The MX-7000 also has an antenna attenuation switch to assist in picking up weak signals in congested areas. This works very well and seems to increase the possible range. The unit has a delay function which can be set only for all channels or none. I am used to having the delay on so this isn't a problem for me, but it may be a problem for some listeners.

I just received a letter from Robert Horvitz (CT-048), Government Affairs Liason for the Association of North American Radio Clubs. Bob responded to my inquiry in the June column about information on the Personal Radio Steering Group. Bob sent some information and a sample newsletter. I haven't had a chance to look at this information yet but will report on it next month.

Bob also sent me some information he picked up at the annual Armed Forces Communications and Electronics Association convention held in Washington, D.C. during the end of May.

One brochure was on a voice control unit made by SCI Technology, Inc. This unit is the first militarized voice control unit using continuous speech. This unit interfaces with aircraft electronics and allows voice control of functions normally accomplished by manual operation of switches, controls or keyboards.

Once the VCU learns the piolots voice, he may control functions using his natural speaking voice. The unit can learn new voices in flight and has a recognition vocablary of 150 words and an

additional 100 word response vocabulary. A video monitor may be attached for display of the spoken commands.

This unit is said to be in use aboard the Joint Chiefs of Staff's aircraft to allow radio operators to switch radios, retune and set up phone patches without touching any controls - simply by using voice commands. This may or may not relate to communications monitoring but it is interesting none the less.

Bob also included information on off the shelf information security products which offer embeddable communication security (COMSEC). These products are designed to be embedded within a wide variety of commercial and military communications and computer equipment. These products are part of project OVERTAKE, an attempt to standardize embeddable COMSEC devices while reducing time and maximizing resources.

This project is a cooperative effort with the National Security Agency and eleven leaders in the feilds of computers and telecommunications. The goal is a standard interface for COMSEC modules so designers of future communications equipment can "leave a hole" in their design for COMSEC modules. Thanks Bob!

Thats all for this month please feel free to send any comments on these products or other new products of interest. I appreciate all the input I've received - keep it coming. I've been busy lately and will respond to all mail reveived as soon as I can. THANKS....

STAY TUNED!!!

JIM ABDU

photo department

Send photographs of custom monitor listening posts, unusual or extensive monitor or two-way antenna systems, user station consoles (PD, Fire, Paramedics, etc.) or other monitor/two-way related equipment of interest. Photographs must be 3 X 5 inches or larger, black-and-white with good contrast, sharply focused and attractively composed. Each photo must be accompanied by details and explanations of equipment. Photos will not be returned. If you have questions, write first and please include an SASE. Send photos or write to:

Hugh Stegman, 11622 Exposition Blvd., #2, Los Angeles, CA 90064

MAPLE LEAF (PART 2)

Here we go with the rest of the pictures from Gilles Thibodeau (CAN - 101). Most are of various emergency vehicles in Quebec province. So let's get to 'em.

#1) Patrol car used by Surete du Quebec (the Quebec Provincial PD).

#2) Mobile lab used by the Bureau des Enquetes Criminelles of Surete du Quebec. It responds to fire investigations, and the like. This agency uses frequencies in the 166-169 MHz band.

#3) Dodge truck belonging to the Quebec ministry of Loisir Chasse et Peche. This is like a game warden.

#4) Unit from the Quebec ministry of Energie et Ressources (Energy and Resources). Frequency is 140.040 (repeater out).

#5) Emergency unit for the Quebec Environnement (Environment) agency. One frequency is 148.780, with a link on 414 MHz.

#6) PD unit used by C.U.M., the Community Urban Police of Montreal. A lot of these cars seem to be Chevrolets.

#7) This ambulance was photographed in Lac-Megantic, but it comes from Maine. Injured patients in border areas are routinely transported to Canadian hospitals when they are closer. Gilles would like to know what frequency is used.

#8) Repeater site atop 3600' Mt. Megantic. Microwave is Canadian Bell. Other users are Federal and Quebec agencies. I'd like to thank Gilles for a great bunch of photos.

URGENCE

32-17

SUGARLOAF RESCUE

PUBLIC SAFETY

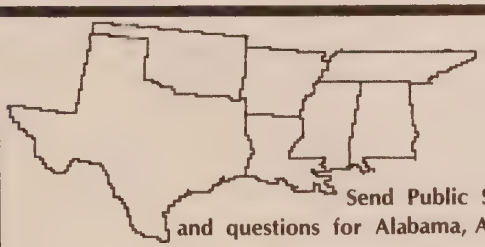
This column is for reporting Public Safety and Special Emergency frequency information, radio system details, radio codes, dispatch areas, unit numbering systems, etc. for poilice, sheriff, fire, forestry (except USFS), fish and game, highway patrol, state police, prisons, prisoner work camps, local government, highway & street maintenance, port authority/bridge maintenance, animal control, ambulances, paramedics, hospitals, life guards, ski patrol, search & rescue, flood control, civil defense and disaster organizations. Input and questions for this column must be sent to the proper regional Public Safety editor listed below.

Associated Public-Safety Communications Officers, Inc.

OFFICIAL TEN SIGNAL LIST

APCO states the numbering, sequence, words or word phrasing of the below listed signals may no be altered, nor may the reserved signals be otherwise implemented except by APCO. Any user may employ signal numbers upward, beginning with 10-40, as needed for local dispatching. RCMA publishes this listing in support of APCO and their uniform dispatch code efforts. We will print other dispatch codes, different from the OFFICIAL APCO listing, only to assist our membership in their continued monitoring hobby. It is hoped you find this listing useful.

10-1	Signal weak	10-19	(In) contact
10-2	Signal good	10-20	Location
10-3	Stop transmitting	10-21	Call ( ) by phone
10-4	Affirmative (OK)	10-22	Disregard
10-5	Relay (to)	10-23	Arrived at scene
10-6	Busy	10-24	Assignment completed
10-7	Out of service	10-25	Report to (Meet)
10-8	In service	10-26	Estimated time of arrival
10-9	Say again	10-27	License/Permit Information
10-10	Negative	10-28	Ownership Information
10-11	( ) on duty	10-29	Records check
10-12	Stand by (stop)	10-30	Danger/Caution
10-13	Existing conditions	10-31	Pick up
10-14	Message/Information	10-32	( ) units needed (Specify)
10-15	Message delivered	10-33	Help me quick
10-16	Reply to message	10-34	Time
10-17	Enroute	10-35 through 10-39 are reserved for future assignment by APCO. User option 10-40 upward.	
10-18	Urgent		



PUBLIC SAFETY - SOUTH CENTRAL

Send Public Safety and Special Emergency frequencies, radio system details, and questions for Alabama, Arkansas, Louisiana, Mississippi, Tennessee, Oklahoma, and Texas to

Ed Lentz, 609 Yorkshire, Pasadena, TX 77503-1450

GEnie - ELENTZ DELPHI - THISARSE COMPUSERVE - 72645,172

Hello again, and welcome to PUBLIC SAFETY - SOUTH CENTRAL. Sorry about the column last month. Since I was the new editor and it was my first time, the Post Office thought it would be a good idea to hold my column in supposedly empty equipment for approximately 15 days. Good thing I mailed it first class. Ever notice how junkmail always gets there on time.

This month I hope to pass on some of the information that I have received from Ken and Richard that has yet to be used. I also have received some information that may be of interest those in Louisiana. Again I remind you, if you haven't sent me a list of what you listen to, please do so. I don't mind using my files each month, but I would like to use some information from other places. After all, this is for you.

I am sure some of you have noticed that some of us have Electronic Bulletin Board addresses for computer information exchange. The requirements for using a Bulletin Board are a computer

of course, a modem, and a telecommmunications program. Without going too far and getting into Bob Cheek's Computer column this is a great way to keep in touch and also to swap frequency list. Recently I ran across an add for GEnie Net in one of my computer magazines and figured why not try it. After the initial $18.00 registration fee, the rates are only $5.00 per hour at 300 and 1200 baud. Now for the good news. In the Electronic Roundtable there is a true scanner section. We don't have to share space with ham radio. Call 1-800-638-9636, ext. 21 for more info. See ya there.

Time to beg again. If any of you out there have a good map for your state I sure could use one. By the time you get to read this I would have spent a week at Pidgeon Forge Tennessee and may possible have a map of Arkansas, Kentucky, and Tennessee. (Hopefully I can say I had a great time.) I perfer the maps that the Highway Department give to us tourist, but beggers can't be choosers can we.

This past week, May 23, I received a phone call from Applied Solutions regarding the program for the Yaesu FRG-9600. At this time they should be available for the Apple II series and Commadore series computers. There is also consideration for the Radio Shack/NEC laptop computers if enough request come in. The operation of the program and features were explained and I am glad that I have the 9600. This thing will be fantastic with computer control. If you are around a store that sells the Yaesu line be sure and check out the program "CAT PAC 9600". It will be worth your time.

Now to the good stuff. With the January 1986 Microfiche being available now from NTIS and Grove I expect to receive some new listings from everyone out there. The best way to find out if any Public Agency is going to change their radio system is to check out the Legal Notices in the Classified section of the newspaper. Almost always they will have a bid notice before buying the equipment.

ALABAMA

ARKANSAS

LOUISIANA

Some info that I ran across for Louisiana:

--- NAME ---	- TX -	- RX -	-- CALL SIGN --
Acadian Ambulance	155.295	155.295	KWL634 KUS553
Acadian Ambulance	155.220	155.295	
Acadian Ambulance	463.075	468.075	KTL662
Acadian Ambulance	463.125	468.125	KNBT594
Acadian Ambulance	463.175	468.175	WQS909
City of Lafayette	453.250	458.250	
City of Lafayette Transit	453.300	458.300	
La. Parish Fire Protec	154.220		WRZ413
Cameron Parish Sheriff	155.550	154.785	KKH831
Cameron Parish Police	37.980		KNDL869
Cameron Parish Police	451.075		KNIQ391
Calcusieu Parish Sheriff	39.500	39.500	KKC592
Civil Air Patrol	149.925	143.750	
Civil Air Patrol	148.150		

MISSISSIPPE

TENNESSEE

OKLAHOMA

TEXAS

Channel Industries Mutual Aid will be changing frequencies on or about August 1, 1986. Preliminary information has this for the Channel/Frequency layout on the handheld radios

	TX	RX
Ch 1.	488.8875	491.8875
Ch 2.	489.0875	492.0875
Ch 3.	489.1125	492.1125
Ch 4.	489.0875	489.0875
Ch 5.	489.1125	489.1125
Ch 6.	BLANK	

For all you Houston Area members Channel Industries Mutual Aid, CIMA, is an organization of Chemical and Refinery fire brigades along the Houston Ship Channel. Most of the fires are minor and a CIMA alert is issued only as a precaution. Occasionally they have a big one. Most likely Channel 1 will be the alert frequency and if things stay the same, test at 0300, 1000, and 1800 each day will give you the list of companies on the net.

Again something from my files that hopefully someone will correct. This information goes back to 1984 but beleive most of it is still correct.

POTTER COUNTY AREA

Sheriffs Office

Ch 1	154.800	
2	154.055	

Neighboring County S.O. 's

155.895	Swisher Co. - Tulia PD
155.775	Deaf Smith Co - Hereford PD
155.880	Armstrong Co. - Claude PD Storm Watchers
155.865	Carson Co. - Panhandle PD
155.535	Lubbock Co.

Police Depts

Amarillo

1	153.890	FD Primary
2	154.860	North Side
3	155.190	South Side
4	155.250	Information
5	154.890	Car to Car
6	155.415	Canyon PD/Randall Co SO
7	154.725	Randall Co SO/Canyon PD
	453.400	Amarillo Police/City Paging
	453.350	Amarillo-Potter-Randall METRO

Neighboring Counties

155.655	Borger Police - Hutchinson Co.
154.025	Canadian City of - Hemphill Co.
155.790	Delhart PD - Dallam Co.
155.950	Floydada PD - Floyd Co.
154.755	Adrian PD - Oldham Co.
154.770	Happy PD - Swisher
155.520	Plainview PD - Hale Co.

Fire Departments

1	153.890	Amarillo Primary
2	154.130	Amarillo Fireground
	46,120	Randall Co/Canyon Fire Dept
	46.100	Deaf Smith Co/Hereford Fire Dept
	33.980	Borger FD
	154.070	Lubbock FD
	154.190	Lubbock FD
	154.250	Pampa FD
	154.025	Plainview FD

Local Governments

155.055	Amarillo Animal Control
154.980	Amarillo City Engineers

Weather Emergencies

155.145	Amarillo Emergency Ops Ctr	
	Tornado Spotters Primary	
462.700	Amarillo Emerg. Tornado Watch	
	Repeats on VHF 155.145	
147.390	Ham Severe Weather	
3.929HF	Severe Weather Net	

Emergency Medical Services

462.950	Ambulance Dispatch	Med 9
462.975	Ambulance Dispatch	Med 10
463.000	Ambulance	Med 1
463.025	Ambulance	Med 2
463.050	Ambulance	Med 3
155.220	Amarillo Hospitals Special Emerg.	
155.340	Northwest Texas Hosp/St. Anthonys	
463.100	Canyon Ambulance	Med 3
463.075	Canyon Ambulance	Med 4
463.125	Canyon Ambulance	Med 6
463.150	Canyon Ambulance	Med 7
463.175	Canyon Ambulance	Med 8

Schools/Colleges

155.610	Texas State Tech. Inst. - Security
155.115	Amarillo College - Security
154.085	West TExas State University - Canyon
155.040	West Texas State University - Canyon
155.715	Canyon School District

News from Brad (OH-138):

Medstar Ambulance (Hartson & Mercy)	Ft. Worth		
		462.950	Dispatch
		860.4375	FWFD Ch 5

News from David (TX-149):

Meissner - Brown Ambulance	Burleson	155.400	Dispatch

That is all the information that I have at this time. Ken and Richard have emptied their files and hopefully all the information has been used. If you have sent in some information and it hasen't appeared by this time, please resend it to me. It is not our intention to restrict any information that conforms to the guidlines of the club, with the shuffle of papers lately, it is possible that something was misplaced.

PUBLIC SAFETY — GREAT LAKES:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Illinois, Indiana, Wisconsin, Michigan, Kentucky, and Ohio:

Jack Waterman, 466 Kings Way, Mundelein, IL 60060

HELLO! Welcome to Public Safety/Great Lakes for August, 1986. Summer's here in full force and you probably have as little time for reading as I have for writing. So no chatter this month; just a few quick reports on what's been submitted to the Column.

--

CLEVELAND FIRE DEPT. This month's fire department feature [how would you know it's PS/GL without a fire department feature?] is on Cleveland FD. The profile comes to us in finished form compliments of Dave Marshall and the All Ohio Scanner Club:

CLEVELAND FIRE DEPARTMENT PROFILE

33.90/33.58	CH 1	MAIN DISPATCH, CITY WIDE KNFX 712 B/M, RPTR
33.72/33.46	CH 2	MULTI-ALARM DISPATCH, CITY WIDE KNFX 712 B/M, RPTR
45.88	VHF LB	COUNTY WIDE MUTUAL AID, BASE ONLY
153.890	CH 1	COMPANY TO COMPANY ALL KNFX 712

154.145	CH 2	FIREGROUND, CITY WIDE
154.010	CH 3	FIREGROUND, CITY WIDE
154.070	CH 4	FIREGROUND, CITY WIDE
153.950	CH 5	BATTALION CHIEFS, COMMAND
153.930	CH 6	BACKUP CHANNEL
153.830	CH *	FIRECOM MAINTENANCE
154.280	VHF HB	COUNTY WIDE MUTUAL AID
154.250/154.175		INTER-DEPARTMENT, RESCUE

STATION	ENGINE	H&L	RESCUE	BN	ADDRESS
1	1	1		1	1645 SUPERIOR AVE
4	TF4	4		4	3136 LORAIN AVE
6	6			5	17210 HARVARD AVE
7	TF7	7		2	3636 WOODLAND AVE
9	9		1	2	6712 WOODLAND AVE
10	10	10		1	1973 EAST 105 STREET
11	11	11		5	4090 EAST 91 STREET
13	13	13		2*	4950 BROADWAY AVE
17	17	17		1*	1918 EAST 66 STREET
19	19			1	1321 EAST 55 STREET
20	20			4*	4316 CLARK AVE
21	21-2			4	1801 CARTER ROAD
22	22		3	6	7300 SUPERIOR AVE
23	TF23	L-23		3	9826 MADISON AVE
24	24			4	3725 WEST 25 STREET
26	26			2	7818 KINSMAN ROAD
29	29			6	1314 EAST 105 STREET
30	30	30		6*	10225 ST CLAIR AVE
31	31	31		6	747 EAST 152 STREET
33	33		2	3*	3544 WEST 117 STREET
36	36	36		5*	3720 EAST 131 STREET
38	38			3	12361 BELLAIRE ROAD
39	39	39		2	15637 LORAIN AVE
40	40			6	18930 ST CLAIR AVE
41	41	41		5	3090 EAST 116 STREET
42	42	42		4	4665 PEARL ROAD
43	43			3	4525 ROCKY RIVER ROAD
L5		5		4	3069 WEST 25 STREET

*: BATTALION HEADQUARTERS. ENGINE 13 IS HAZARDOUS MATERIAL UNIT.

Thanks, DAVE and AOSC, for that in-depth review.

--

MICHIGAN This next list comes from "Anonymous." Although I'm pretty sure that the regular contributions from "Anonymous" are all from the same person, I have no idea who it is. Anyway, here's the list; I hope you find the data helpful.

155.370	City of Birmingham (Police)
153.860	Village of Beverly Hills (Snow Plows)
153.995	City of Birmingham (Snow Plows)
155.340	City of Birmingham (Fire)
155.655	City of Birmingham (Police)
155.970	City of Birmingham (Police)
159.030	Village of Beverly Hills (Police)
155.655	Bloomfield Hills (Police)
155.880	Bloomfield Hills (Police)
808.1625	Bloomfield Hills (Police) also Twp.
808.2125	Bloomfield Hills (Police) also Twp.
853.1625	Bloomfield Hills (Police) also Twp.
853.2125	Bloomfield Hills (Police) also Twp.
153.755	City of Troy (Local Govt.)
153.965	City of Troy (Local Govt.)
154.235	City of Troy (Fire)
154.385	City of Troy (Fire)
154.800	City of Troy (Police)
154.845	City of Troy (Police)
155.115	City of Troy (Local Govt.)
155.280	William Beaumont Hospital Troy
155.370	City of Troy (Police)
155.400	William Beaumont Hospital Troy
155.595	City of Troy (Police)
158.985	Oakland County Road Commission (Troy Repeater)
159.045	Oakland County Road Commission (Troy Repeater)
453.025	William Beaumont Hospital Troy
808.2125	City of Troy (Police)

853.2125	City of Troy (Police)
39.300	Pontiac Twp. (Police)
39.360	Pontiac Twp. (Police)
39.400	Pontiac Twp. (Police)
39.820	Pontiac Twp. (Police)
42.480	Michigan State Police
42.580	Michigan State Police
42.940	Michigan State Police
45.640	Michigan State Police
46.520	Michigan State Police & Weighmaster
46.560	Michigan State Police & Weighmaster
154.340	City of Pontiac (Fire)
154.430	Paramed, Inc. (Ambulance)
154.665	Michigan State Police
155.190	City of Pontiac (Police)
155.220	St. Joseph Hospital Pontiac
155.220	Pontiac General Hospital
155.235	Paramed, Inc. (Ambulance)
155.340	St. Joseph Hospital Pontiac
155.340	Pontiac General Hospital
155.370	Pontiac Township (Police)
155.370	City of Pontiac (Police)
155.370	Michigan State Police
155.505	Michigan State Police
155.520	Pontiac Township (Police)
155.775	City of Pontiac (Police)
155.835	Pontiac Township (Local Govt.)
156.195	City of Pontiac (Snow Plows)
158.820	City of Pontiac (Local Govt.)
808.0125	City of Pontiac (Police)
853.0125	City of Pontiac (Police)
808.1125	Oakland County Sheriff (New Listing)
853.1125	Oakland County Sheriff (New Listing)
808.0625	Oakland County Disaster Net

Anonymous

CHICAGO FIRE DEPT. I received a review of 1985 CFD apparatus changes from column-regular **MIKE** [II-014] some time back. Somehow it never made it into the column. Here's the scoop:

> 17 new engines from Emergency-One have been assigned. They have GM 6T71D diesel motors and automatic transmissions. The chassis are 'hurricanes' by Federal Motors, Inc. The design is low profile, cab-forward, 92 inches wide. The pumps are 1250 gpm Hales and the engines have 500 gal booster tanks, prepiped waterways to Elkhart Stang guns, and Mattydale boxes below the Stang with 1 3/4" leadouts. There are two 2 1/2" discharges on each side of the engines; a 3" discharge at the front of the cab next to the 4" suction; and a 3" rear discharge. All engines are equipped as quick water rigs, which can also add AFFF directly to booster tank water.
>
> Engine Companies receiving the new apparatus and the chassis numbers are:

E-18	D-489	E-45	D-494	E-77	D-499
E-19	D-490	E-50	D-495	E-112	D-500
E-26	D-491	E-54	D-496	E-101	D-501
E-35	D-492	E-57	D-497	E-91	D-502
E-38	D-493	E-74	D-498	E-106	D-503
				E-108	D-504
				E-120	D-505

> Also purchased from Emergency-One were six or more 95 foot ladder towers. Truck 39 was delivered in October, 1985 and the other five trucks were to be assigned one per district. A seventh truck may be on order for O'Hare and a 6x6 CRF rig is also on order for O'Hare.
>
> A new house for Midway Airport is in planning as are replacements for O'Hare center and north stations. New 5-1-1 [Haz-Mat 1] was rebuilt from an old Mack-Platt Flying Squad [G-306] painted white over red.

Thanks, **MIKE**, for another interesting update on CFD.

CHICAGO POLICE DEPT. We seldom have info on the CPD, so when **RON** [IL-310] offered me the following detailed report on District 8 at a recent RCMA Chicago meeting, I jumped at the chance to pass it along in the column. He also provided the incident reporting codes and frequncy breakdown, but you've read those before. How's this for a slick way to make sense out of the unit numbering system?

8th district station
3516 West 63rd st.
Chicago, Il. 60629

CHICAGO POLICE DEPARTMENT

> Frequency - 460.400 < 8th District Assignments

800 District Commander 801 Desk Sergeant 802 Desk Officer
803, 804 Warrent Officers 805 Abandoned Vehicle Officer (A.V.O.)
806 Incident Car 807, 808 Special Assignments 809 Ford City

	SGT.	BEAT CARS		SECTOR CARS	SQUADROLS
sector 1	810	811-812-813-814-815	>	816-817-818	871
sector 2	820	821-822-823-824-825	>	826-827-828	872
sector 3	830	831-832-833-834-835	>	836-837-838	873
	860	tactical team 1	>	861-862-863-864	
	865	tactical team 2	>	866-867-868-869	

870 tactical lieutenant 880 Detail Sergeant 890-891 Field Lieutenant
899 Watch Commander 881-889 Foot beats 892-898 motorcycles

>> DEPARTMENT UNIT ASSIGNMENT NUMBERS

Car #	Division
1	Mayor's Limo
2	Deputy Mayor
3	Police Superintendent
0100-2599	district vehicles (1st two digits=district #)
3101-3199	internal affairs div.
3401-3499	vice control
3501-3599	intelligence div.
6100-6699	special operations group: area squads
6801-6806	marine/helicopter units (M-1 to M-6)
6900-6999	canine units
7001-7010	bomb & arson squads
7026-7045	central investigations
7100-7699	area criminal investigation units
8100-8699	youth div.
9070-9089	traffice radar units
9100-9699	traffic units

L_ _ _ mass transit (CTA)

1/85

Now if I can only get **RON** to send me copies of the same details for the other 24 districts ..... Anyway, thank you, **RON** for a very helpful and clear contribution to our monitoring pleasure and success.

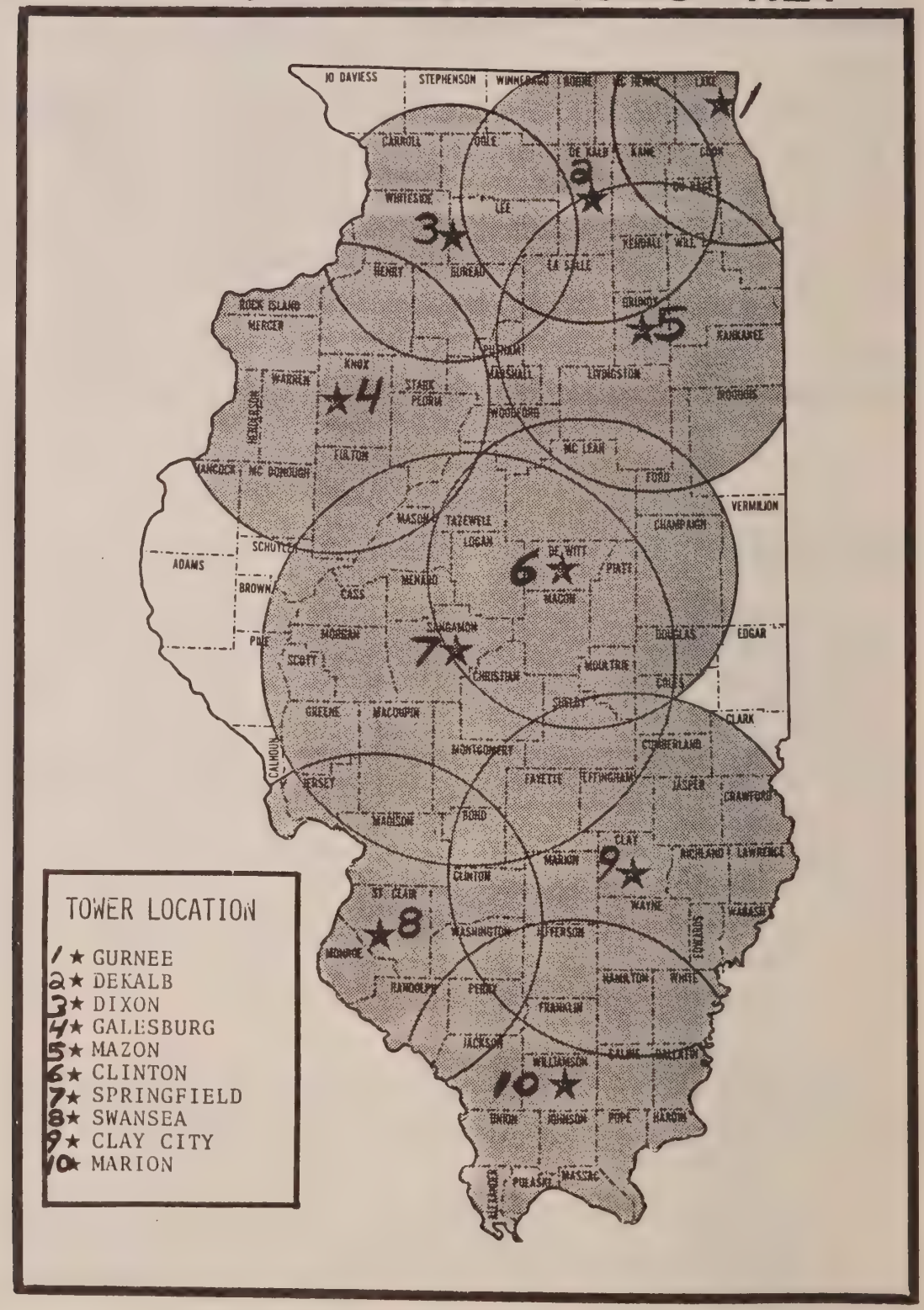
ILLINOIS EMERGENCY SERVICES and DISASTER AGENCY Members in Illinois and neighboring states monitor 45.44 MHz for ESDA. There was a comprehensive article on this agency some years ago, describing use of remote transmitters and other fairly sophisticated techniques. Unfortunately, I was not able to locate that piece to prepare a summary to go with the following map. [I also was unable to find the identity of the member who sent me the map !] I hope you find it useful anyway, and that you write in with details on the system and identify our benefactor. Tower site locations may explain why you do or don't ever hear traffic on 45.44 ESDA.

--

Illinois Emergency Services and Disaster Agency

45.44 Mhz

COMMUNICATIONS NET

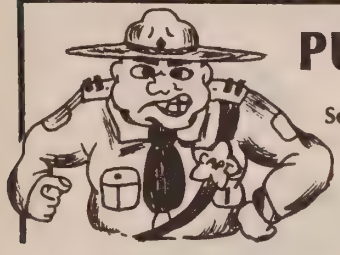


"The only thing in life that's constant is change." By the time you read this I will have sent my resignation to General Editor Bill Mauldin, with my regrets. No-one could have asked for a more faithful column readership than mine, and I have truly enjoyed the past two years of assembling the data **you** provided for each other into a monthly Column. Each of you who has contributed to PS/GL, whether it was one "quickie" or you were one of my "column-regulars," helped make our column one of the most informative and best-read in the Newsletter. Although I've said it before, I'd like to repeat my "thanks for making PS/GL what it is."

I plan to continue editorship until Bill appoints a replacement, and I'm specifically not inviting applications to serve as my successor as that's his prerogative. So watch for a notice in Bill's column.

Meanwhile, if you want **your** name to appear in one of "my" columns, time's running out. So you better put down the mint julep and

TRACK 'EM DOWN !! WRITE 'EM UP !! SEND 'EM IN !!



PUBLIC SAFETY — SOUTH EAST:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Florida, Georgia, N. Carolina, S. Carolina, W. Virginia and Virginia:

Jorge L. Rodriguez, 1129 Castile, Coral Gables, FL 33134

ed·i·tor, n. . 1. a person who edits: "A large newspaper has many editors who are each responsible for a single department of news, a city editor, business editor, military editor, sports editor, etc. Every magazine is created by its editor, and bears the stamp of his personality." (A.W. Haslett). 2. a person who writes editorials

Editorial

Rather than have you read a **NO COLUMN THIS MONTH** notice I've decided instead to talk this month about what you can expect in the future. As a starting point I've included the above dictionary definition in the hope that it might shed some light on the problem before us.

Over the years, many members have found comfort in the habit of sending in their annual dues and sitting back and awaiting the arrival of the Newsletter each month. The subject of Member Contributions to the Newsletter has been addressed repeatedly by the editors and staff year after year. Still the fact remains that most of the material that appears in the columns turns out to have been actively sought by the editor at the time, rather than arrive unsolicited from the members as most editors would prefer.

That is not an editors job. His job is to edit other peoples writing,not to do all of the reporting. The witting in this case should be material submitted by the members. Which brings us to that age old problem (at least for the Newsletter) of having few if any submissions.

I have heard over the years many of the reasons why members have lost interest and not submitted material. Among them that they've (1) matured in the hobby and outgrown Public Safety, (2) grown tired of seeing incorrect material and having to correct it,and (3) or simply lost interest in the hobby altogether. I'm sure there are others but these I've heard personally.

However valid these reasons may be the fact remains that most of you for lack of interest or motivation or just plain apathy have never made a submission. The Newsletter is after all a volunteer effort on the part of RCMA members for RCMA members.

And I would challenge you who are reading this to if nothing else right now write down the frequencies and uses of what's in your scanner and send it in.

There is an old computer acronym G I G O which stands for garbage in - garbage out that is often used when referring to the programing of computers. Similarly when it comes to the Newsletter I would like to adopt the following acronym N I N O- Nothing in , Nothing out.

-=-

Next month look forward to an in depth look into Florida's Fire/Rescue Trauma Helicopters AIR RESCUE ONE (in South Florida) and ShandsCAIR(in North Florida) as well as other submissions by the members.

Golden Gate Division
Helicopter Data Sheet

Helicopter type/model: Bell 206B III Jet Ranger

Radio call designation: Helicopter 32

Location Based: Napa County Airport, Silverado Avionics Hangar, 2500 Airport Road, Napa, CA 94558

Method of access: Emergency - Contact Oakland Communication Center (415) 658-9115, Information - Flight Office (707) 257-0103

Hours of Operation: 0700 - 2330 hours, daily. May vary due to crew staffing, weather or training.

Aerial Supervisor: Sergeant Tim Miller

Staffing: Three Traffic Officer Pilots, and three Traffic Officer Flight Officers.

Performance Summary:

Normal cruise speed: 90 Knots
Maximum cruise speed: 130 Knots
Endurance: 1 1/2 Hrs nor. 4 Hrs Max.
Fuel: Jet A

Payload:

Maximum gross wt:	3200 lbs.
Empty Weight:	2110 lbs.
Fuel Wt Normal:	352 lbs.
Load Capacity	596 lbs.

Minimum landing area 60'x 60'

Medivac Capabilities: 1 litter patient or 2 ambulatory patients

Crew: Pilot and Flight Officer (EMT-1)

Communication Equipment:

Three Wulfsburg Radios. 93 preset channels. 18,030 total channels.
Frequency Ranges: 30-50 KHz, 138-174 KHz, 450-470 KHz

Two V.H.F. Avionic communication radios.

Loran-C navigation instrument

Auto Pilot

On-board specialized equipment:

EMT Kit	30 Million candlepower searchlight	Portable oxygen
P.A. System	Heart Lung Resusicator	Siren
35mm camera	Binoculars	

External load equipment

25' sling	Horse Collar
50' sling	Billy Pugh Net
100' sling	+associated equipment

1 Arm Cliff CH-AL-02

CALIFORNIA HIGHWAY PATROL AURAL BREVITY CODES (SANTA ANA #86,#55,#113)

10-1 RECEPTION POOR
10-2 RECEPTION GOOD
10-4 MESSAGE RECIEVED
10-5 RELAY MESSAGE
10-6 BUSY, STAND BY
10-7 OUT OF SERVICE
10-8 IN SERVICE
10-9 REPEAT TRANSMISSION
10-10 OFF DUTY
10-11 IDENTIFY MOBILE FREQUENCY
KA 4993 ("S" CHANNEL)
10-13 ADVISE ROAD & WEATHER CONDITIONS
10-14 PROVIDE ESCORT
10-15 PRISONER IN CUSTODY
10-17 RELAY PAPERS,SUPPLIES,ETC....
10-19 RETURN TO_____
10-20 LOCATION REQUESTED
10-21 TELEPHONE_____
10-22 DISREGARD
10-23 STAND BY
10-28 REGISTRATION REQUEST
10-29 CHECK FOR WANTS
10-30 IMPROPER RADIO TRAFFIC
10-31 ATTEMPT SUICIDE
10-35 CODE 2 BACK-UP
10-36 CONFIDENTIAL INFORMATION
10-36A CONFIDENTIAL INFO. SUBJECT POSSIBLY ARMED
10-36F CONFIDENTIAL INFO. POSSIBLE FELONY WANTS
10-36M CONFIDENTIAL INFO. POSSIBLE MISDEMEANOR WANTS
10-37 WHAT TIME IS IT ?
10-39 MESSAGE OR ITEM DELIVERED
10-97 ARRIVED ON SCENE
10-98 ASSIGNMENT COMPLETED

11-10 TAKE A REPORT
11-24 ABANDONED VEHICLE
11-25 TRAFFIC HAZARD(SPECIFY TYPE)
11-26 DISABLED VEHICLE-OCCUPIED
11-27 DDL CHECK, DRIVER HELD
11-41 AMBULANCE REQUIRED
11-44 POSSIBLE FATALITY
11-48 PROVIDE TRANSPORTATION (PERSON)
11-66 DEFECTIVE TRAFFIC SIGNALS
11-79 ACCIDENT-AMBULANCE ROLLING
11-80 ACCIDENT-MAJOR INJURY
11-81 ACCIDENT-MINOR INJURY
11-82 ACCIDENT-PROPERTY DAMAGE
11-83 ACCIDENT-NO DETAILS
11-84 DIRECT TRAFFIC
11-85 TOW TRUCK REQUIRED
11-86 BOMB THREAT

11-87 BOMB FOUND
11-98 MEET_____
11-99 OFFICER REQUIRES HELP, EMERGENCY

CODE 2 URGENT
CODE 3 EMERGENCY
CODE 4 SITUATION STABLE, EMERGENCY NO LONGER EXISTS

CALIFORNIA HIGHWAY PATROL OUT-OF-SERVICE RADIO LOCATION NUMBERS
(#86,#55,#113)

101 DOODLES - BEACH/91
102 HUGOS - EUCLID s/o LA PALMA
103 TACO BELL - ST.COLLEGE/LINCOLN
104 CAPRI - ST.COLLEGE/LINCOLN
105 DISNEYLAND HOTEL
106 CARL'S JR. KATELLA/I-5
107 CARNATION - 2910 E. YOBA LINDA BLVD. FULLERTON
108 DENNY'S - 57/IMPERIAL
109 COCO'S - 57/IMPERIAL
110 CYNDY'S - 57/IMPERIAL
111 LOVES - KATELLA/TUSTIN
112 FITSGERALD'S - KATELLA/ST.COLLEGE
113 KNOWLWOODS- EUCLID/CRESENT
114 KNOWLWOODS- IMPERIAL/91
115 KNOWLWOODS- TUSTIN
116 EL CONEJO - TUSTIN
117 IN & OUT- BROOKHURST/ORANGE
118 MEDINA'S - PLACENTIA
119 KENO'S - LA PALMA / MAGNOLIA
120 ANGELO'S-ST. COLLEGE
121 HOWARD JOHNSONS-HARBOR/I-5
122 CARROW'S-ST. COLLEGE
123 CRACKER BARRELL-ST. COLLEGE/LINCOLN

200 SANTA ANA C.H.P. OFFICE
201 IN & OUT - BRISTOL/CIVIC
202 MANNY'S-17th/55
203 BENJI'S-TUSTIN/17th
204 LOVE'S-LAGUNA/RED HILL
205 MA BARKERS-GRAND/FAIRHEAVEN
206 DON ARTURE'S-17th/OLD TUSTIN
207 AURTHERS-TUSTIN
208 JOHNNIE'S-17th/TUSTIN
209 DINO'S-CHAPMAN/YORBA
210 NORM'S-17th/MAIN
212 DENNY'S-17th/55
213 BOB'S-17th/GRAND
214 DENNY'S-17th/GRAND
215 CARROW'S-17th/GRAND
216 JACK IN THE BOX- NEWPORT/LAGUNA
218 PIONEER CHICKEN-NEWPORT/MITCHELL
219 EL TORITO-17th/YORBA
221 COCO'S-17th/TUSTIN
223 COOKBOOK-17th/YORBA

301 HONOR FARM-TRABRUCO/LAKE PKWY
302 PULI CAFE-SILVERADO CANYON
303 TRABUCO CAKE-TRABRUCO CANYON
304 BOB & JEAN'S-CHAPMAN/NEWPORT

401 AIRPORTER INN-MAC ARTHUR
402 WINCHELL'S-HARBOR/BAKER

901 ANAHEIM DOCTORS HOSPITAL
902 ANAHEIM GENERAL HOSPITAL
903 ANAHEIM MEMORIAL HOSPITAL
904 BEACH COMMUNITY HOSPITAL
905 BREA COMMUNITY HOSPITAL
906 CANYON GENERAL(KAISER)
907 CHAPMAN GENERAL
908 CHILDREN'S HOSPITAL
909 CORONA COMMUNITY HOSPITAL
910 COSTA MESA MEMORIAL
911 ORANGE COUNTY JAIL
912 DOCTOR'S HOSPITAL
913 EL TORO DISPENSARY
914 FOUNTAIN VALLEY COMMUNITY HOSP
915 FULLERTON COMMUNITY
916 HOAG MEMORIAL
917 LA HABRA COMMUNITY
918 LA PALMA INTERCOMMUNITY HOSP
919 LINCOLN COMMUNITY
920 MARTIN LUTHER
921 MERCY GENERAL
922 PLACENTIA/LINDA
923 SADDLEBACK COMMUNITY
924 ST. JOSEPH'S
925 ST. JUDES/FULLERTON
926 ST. JUDES/YORBA LINDA
927 TUSTIN COMMUNITY
928 U.C.I.M.C.
929 WEST ANAHEIM COMMUNITY
930 WESTERN MED/ANAHEIM
931 WESTERN MED/SANTA ANA

NEW MASTER REFERENCE

MILITARY RADIO SYSTEMS
California

SUMMER SUPPLEMENT TO
GOVERNMENT RADIO SYSTEMS

Air Force Army Navy

CALLWORDS
ORGANIZATION NAMES
STANDARD NET NAMES
BLOCK SEARCH GUIDE

Only 100 copies available

For this timely military primer
sent Priority mail postpaid
please remit $8 to

Mobile Radio Resources
2661 Carol Drive
San Jose CA 95125

EXPANDS YOUR SPECTRUM

PUBLIC SAFETY — NORTH EAST:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — New England states, New York, Pennsylvania, New Jersey, Maryland, Delaware, and District of Columbia:

C. Homer (Hank) Rose III (NJ-206), 2 S. Gold Drive, Robbinsville, NJ 08691

PUBLIC SAFETY — NORTH CENTRAL:

Send Public Safety and Special Emergency frequencies, radio system details and questions as follows — Iowa, Kansas, Missouri, Nebraska, N. Dakota, S.Dakota, and Minnesota:

Kurt Swaney, P.O. Box 1198, Manhattan Beach, CA 90266-8198

PUBLIC SAFETY WEST

Send Public Safety and Special Emergency frequencies, radio system details and questions for Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming to:

George N. Hoggatt, 17473 E. 16th Dr., Aurora, CO 80011
electronic mail:<Compuserve-75376.673>, <Delphi-JORG>, <Source-BBZ812>

****

NO COLUMN THIS MONTH

RAILROADS

Gary L. Sturm and
Bill Farmer, Editors

Send information about railroad frequencies and their uses, railroad radio system details, and related questions to:

Bill Farmer, P.O. Box 1838, Thousand Oaks, CA 91360

Welcome aboard for another outing with the Railroads column. Starting off this month, David A. Hartley (CT-092) would like to know what type of equipment and radios are used by Amtrak police. He hears them on 161.295 with some tone generation between Hartford CT and Boston MA. Can anyone supply info on this? Amtrak also uses 161.205 for police car-to-car in this area.

SHORTLINE STUDY

by GARY L. STURM (IN-045)

ALLEGHENY RAILROAD Warren, PA Trackage: 150 miles

160.290/161.460	Ch 1 Corry Road repeater
160.290	Ch 2 Warren base station control
160.290/161.460	Ch 3 Ridgeway repeater
161.460	Ch 4 Mobile to portable
160.800	Ch 5 Conrail dispatcher @ Conrail interchange
160.230	Ch 6 B&O channel used in switching at Emporium Yard

BLOOMER SHIPPERS CONNECTING RR d/b/a THE BLOOMER LINE
Chatsworth, IL Trackage: 36 miles

161.355/160.365	Road repeater

CANEY FORK & WESTERN RR McMinnville, TN Trackage: 61 miles

160.545	Switching

CENTRAL MONTANA RAIL Denton, MT Trackage: 66 miles

160.800	General operations
160.860	(not currently used)

EAST TENNESSEE RAILWAY Johnson City, TN Trackage: 11.20 miles

160.425	General operations

KEOKUK JUNCTION RAILWAY Keokuk, IA Trackage: 4.50 miles

160.395	Switching
160.845	(not in service)

NITTANY & BALD EAGLE RR Bellefonte, PA Trackage: 46 miles

160.590	General operations

NORTH SHORE RR Northumberland, PA Trackage: 43.50 miles

160.455	General operations

TRAVELS ON AMTRAK

by SCOTT TEXTOR (GA-005)

In April I went to Birmingham, AL. At the Birmingham Southern yard I watched a BS crew with my scanner on search. They were using 160.515.

Recently I saw the New Georgia RR's diesel. It is Southern #6901 which used to be Kelly Green and pulled the Crescent in the '40s and '50s. When I saw the new paint job I thought, "If the Shriners had a train that is how they would paint the engine." I went down to the zero milepost (probably ex-Western & Atlantic) at Underground Atlanta and the old Georgia freight depot to watch the New Georgia steam engine. A member of the Atlanta Chapter of the National Railway Historical Society said their frequency is 154 something. He thought it was 154.540.

The following are notes from my fall 1985 Amtrak vacation. I received Conrail car department on 161.070. In Syracuse, NY the Train Chief switched from 160.800 to call the car department, then back to 160.800 to tell the engineer what he found out.

In Toledo, OH I received a police department on 160.560 [Conrail -ed.]. Near Pennsylvania Station in New York City some tone on 161.245 made me change my upper search limit. In Washington, DC I received the Capitol Limited on 160.230, Metro subway PD on 161.385, and Conrail switching on 160.800.

The Richmond, VA Amtrak station is on 457.900. I received the Silver Meteor on 160.590 in Richmond. In South Carolina the "talking" defect detectors are on 160.590. Northbound south of Raleigh the crew of the Silver Star changed from 161.100 to 160.590 but the first "talking" defect detector north of the station was on 161.100.

In Anniston, AL I received the conductor to dispatcher on 161.155. That was the conductor of Amtrak 820 [Crescent]. The Crescent called Tuscaloosa, AL on 160.535 and I received the crew of the Crescent on 160.535 in Hattiesburg, MS.

In Jacksonville, FL, on 161.190 I received an ID that sounded like "Southern Ramp" [piggyback loading/unloading facility].

In Memphis, TN a railroad police officer was on the mutual aid channel, 161.205, trying to get a group together to go eat. I received Illinois Central Gulf, Burlington Northern, Seaboard, and Missouri Pacific.

I hope these notes will provide some information your readers can use.

AUSTRALIA-WIDE ALLOCATION

data from Queensland Railways via Gary L. Sturm (IN-045)

The federal government in Australia recently allocated a number of frequencies for railway use throughout the country. Queensland Railways has begun to use some of the channels, and railways in other states can be expected to do so in the future.

1. Between Trains and Train Control

(Total of 15 channels - includes provision for on train public address)

	BASE TX MHz	BASE RX MHz	SINGLE FREQ.
(a) Non urban - 9 two frequency channels allocated Australia wide	418.550	408.100	
	417.850	408.400	
	418.150	408.700	
	418.450	409.000	
	418.750	409.300	
	419.050	409.600	
	419.350	409.900	
	419.650	410.200	
	419.950	410.500	
(b) Urban - Addition 6 two frequency channels allocated for use with those already listed	418.425	408.975	
	418.725	409.275	
	419.025	409.575	
	419.325	409.875	
	419.625	410.175	
	419.925	410.475	

2. Local Train Radio (2 channels)

Two single frequency channels have been allocated Australia wide for:

(a) track to train
wayside stations
signal boxes
track repair 411.525
hot box alert 411.550

(b) train to train

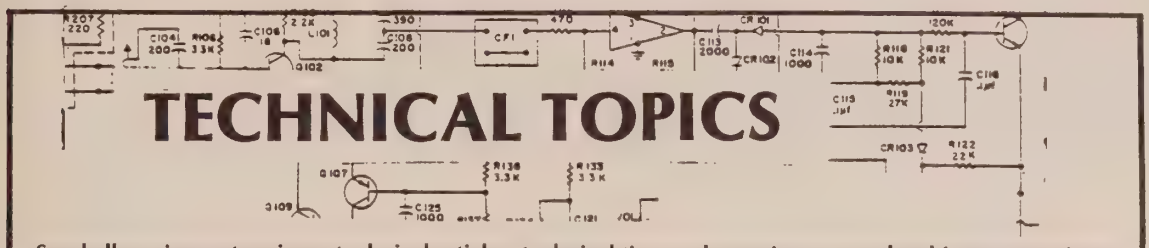
(c) end to end

	BASE TX MHz	BASE RX MHz	SINGLE FREQ.
3. Yard Radio (17 channels)			
(Includes provision for non train radio requirements)			
	SITE 1		
These are low power services, hence frequencies may be shared, outside the service area, with other organizations in the long term.	416.975	407.525	
	417.075	407.625	
	417.125	407.675	
	417.200	407.750	
	417.250	407.800	
There are both two frequency and single frequency channels allocated Australia wide for these services.			
	SITE 2		
Off line (including private sidings)	417.275	407.825	
Shunting	417.375	407.925	
Number taking	417.425	407.975	
Remote control of shunting locomotives	417.500	408.050	
Remote control of hump shunting			
Remote control of bogie exchange cranes, forklifts, tractors, etc. (non train radio)	417.000	407.550	
			410.625
			410.800
Note: The channels grouped together under each site number are suitable to co-site as indicated.			410.925
			411.175
			411.375
			411.475
			411.625
4. Train Monitoring and Control (3 channels)			
Position reporting			
Performance monitoring (equipment e.g. coolant temperature and oil pressure)			410.675
Train identification			411.050
Dragging equipment detectors			411.325
Air pressure monitors			
Vehicle motion detectors			
Safeworking-Location Identification and Control (L.I.C.)			
Crew performance monitoring			
Cab signalling			
Remote control of trains			
NON TRAIN RADIO			
1. Country (regional)			
These 2 two frequency channels allocated Australia wide should be able to cover all activities listed below, under Metropolitan, by employing selective calling techniques	419.600	410.150	
	419.900	410.450	
2. Metropolitan (5 channels)			
(a) Engineering Services			
- track	418.175	408.725	
- traction	418.475	409.025	
- signals	418.775	409.325	
- light and power	419.075	409.625	
- diesel maintenance	419.375	409.925	
(b) Emergency Services			
(c) Security Services			
(d) Area Management			
(e) Courier			

Note: Yards, (cranes, forklifts, tractors, etc.) have been catered for under item 3 Yard Radio.

This concludes (for the time being) our Australian coverage of the past several months. If more information becomes available, of course we will bring it to you. We hope you are enjoying, or looking forward to enjoying, your summer vacation. Please write to us and tell us what railroads you monitored during your travels this year, and what you heard on each frequency. So long for now.

—Gary & Bill



TECHNICAL TOPICS

Send all equipment reviews, technical articles, technical tips, and questions on such subjects as receivers, antennas, preamps, accessory equipment, repeaters, links, tones, scramblers, non-voice data transmissions to:

Stephen A. Kayworth, 21551 Kapok Circle, Boca Raton, FL 33433

SOMETHING DIFFERENT

This year I decided to take my vacation early in the summer, so I headed off to the wilds of New Hampshire where I spent most of my time fishing and relaxing. New England in May can be very nice but the weather can be fickle. It rained the last four days I was there, so with soggy spirits, I headed back to Florida where, upon stepping off the plane, it imediately started to rain. Oh well!

Having returned the day before this month's column is due makes it an opportune time for me to cover a subject which was submitted by a reader in the Mid-West. The reader submitted a list of terms and abbreviations he ran across in some reports of FCC applications. He would like to know the meanings of these.

In reviewing the list, it seems to me that most of the items on it are describing either a certain class of radio system or a certain class of radio user. Some of the terms on the list I am familiar with and will attempt a definition where possible, but the most accurate definitions will be found in the FCC rules a regulations. Please feel free to correct me if I miss the mark with any of these. If I don't know what a particular term means, I will leave it blank and hope that one of you will be able to fill us in on the definition.

FB = Base:

A radio which is operated on a simplex channel (transmits and receives on the same frequency) from a fixed location. It is used to communicate directly with mobile or portable units.

FB2 = Mobile Relay:

A mobile relay is a repeater which is used to re-broadcast the signals from mobile or portable units.

FB4 = Community repeater:

A community repeater is operated like any other repeater but it is shared by two or more users. The cost of operating the repeater is shared by all the users.

FX1 = Control:

A control station operates through a repeater as though it were a mobile unit, but it is normally at a fixed location and has a

directional antenna which is aimed at the repeater. The control station is different from a base station in that a base communicates directly with units in the field whereas a control station can only communicate with units in the field via a repeater

FX0 = Operational Fixed: ?
FX2 = Fixed Relay: ?
FX3 = Fixed Repeater: ?
FLT = Auxiliary Test: ?
FXY = Zone or Inter-Zone: ?

The preceeding list deals with various types of radio system operation which the FCC authorizes. The remainder of the list is more concerned with the various types of radio users. The reason that it is important for a radio user to be classified is that the FCC has reserved certain frequencies for certain classes of radio user. Where possible, I will expand upon the term given, but some of the terms are self-evident.

GB = General Bussiness:

This catagory encompasses many of the radio users which don't fit into one of the special catagories set-up by the FCC. As it applies to 800 MHz, the term "Conventional Business" is used to differentiate between normal base or repeater operation and trunked operation.

GO = Conventional Industrial/Land Transportation (800 MHz)

GX = Conventional Commercial (SMRS):

The term "SMRS" stands for Special Mobile Radio Service.

IP = Petroleum
IS = Special Industrial
IW = Power and Water Utilities
IX = Manufacturers
LR = Railroad
LV = Motor Carriers
LX = Taxi
PF = Fire
PH = Highway Maintenance
PL = Local Government
PO = Forestry Conservation
PS = Special Emergency

YB = Trunked Business:

This catagory pertains to 800 MHz General Business users operating through trunked radio systems.

YX = Trunked Commercial (SMRS) [800 MHz]:

Same as GX but for trunked user.

One other abbreviation that was mentioned was "GMRS" which stands for General Mobile Radio Service. I'm not sure what this catagory entails, but I think it can help account for any users who don't fit into one of the other special catagories.

I hope that this has helped clarify some of the terms you may have heard. I also hope that some of you will be able to fill-in some of the gaps in by knowlege.

'til next time

Steve

VHF MARINE

Send information, articles, frequencies and their use, and questions that relate to private, commerical, and Coast Guard VHF maritime and inland waterways radio communications to:

Emmett L. Baxter, Jr., 4122 Granby St., Norfolk, VA 23504

Hello and welcome to your August 1986 VHF Marine Column.

You will find a new item starting in this months column. It is called a MARINE RADIO PROFILE. This profile will be listed by states and probably have to be split into more than one issue due to the length of the profiles. The first profile,which is in this issue, will be the first part of the state of Massachusetts. The Conclusion will run next month. The profiles are meant to give you new fields of listening and a better understanding of the marine useage of radios in everyday business life. Your comments would be welcomed on this new addition to your column. Also after a state has appeared in the column a profile will be available from me just for the asking.

Our first report comes from Larry (Mi.-140). He reports that marine traffic on Lake St.Clair between the St.Clair River and the Detroit River is very heavy.

Ch. 6 - 156.300 - Ship-to-Ship
Ch. 8 - 156.400 - Ship-to-Ship
Ch.10 - 156.500 - J.W.Wescott MailBoat,Ford Motor Co.(Marine Division)
Ch.11 - 156.550 - Sarnia Traffic Control - (See 156.600 mhz.)
Ch.12 - 156.600 - Sarnia Traffic Control - Very interesting to listen to.Ships have to call in at certain Buoy Points,so that the Sarnia Coast Guard can keep track of the ships in the river.This comes out of Sarnia,Ont.,Canada.
Ch.21 - 157.050 - Coast Guard - Group Detroit,District 9,Stations St. Clair Shoras,Bell Isle,St.Clair Flats and Air Station Detroit.
Ch.22 - 157.100 - Coast Guard - See Channel 21
Ch.23 - 157.150 - Coast Guard - See Channel 21
Ch.26 - 161.900 - Detroit Marine - Ship-to-Shore Telephone
Ch.28 - 162.000 - Detroit Marine - Ship-to-Shore Telephone
Ch.83B- 161.775 - Continuous Marine Weather Broadcast from Sarnia Coast Guard Radio.

U.S.Coast Guard Air Station Detroit,Mi. Freq.

HF - 5692 Common	UHF - 381.000	VHF - 156.800,157.050
5696	381.800 Common	157.100,157.150

Larry also sent in article entitled "New age of Communications for Lakes?",from the Seaway Review April-June 1986. The article talks about the different shippers and the radio system they use. Also the article goes into Cellular Communications.

Our next report comes from David (CA-SF-025). David attended Coast Guard appreciation Day in San Francisco May 4,1986 and submits the following report.

Fort Point Station:(San Francisco)

Held open house.Each visitor had a personal escort.The sailor confirmed that Fort Point will be relocated to East Fort Baker (across the Bay) in 2-3 years. Fort Point has 2 - 41 footers and 1 - 31 foot "Surf-Boat".

Pier 45 - San Francisco:

All Day performance by USCG Band
Exhibits from Coast Guard Art Show

Emergency Communications Van
Pictures of Petaluma CG Training Center
Display from Alameda CG Reserve Schools
Equipment from Pacific Strike Team
22' Boat and display from S.F. Marine Safety Office
A River Patrol Boat from CG Station Rio Vista
SAR demonstration offshore involving a 44' boat and a chopper
(The Demonstration showed a transfer from boat to helicopter)
The following Ships had Open House

Glacier (Icebreaker #4)	Resolute (WMEC-620)
Blackhaw (Buoy Tender)	Rush (WHEC-723)with Helo.#1383

David says that the pilot houses have state of the art navigation and communications equipmenty in them. He especially enjoyed the tour of the Icebreaker.

David also sent in a flyer on the Coast Guard Communications Central Trailer. It is one of four trailers that can be moved around to help out in some special need. They are equipped for all types of communications.

The following is our new Marine Radio Profile section of the column. Let me know how you feel about it or submit other ideas.This column depends on your input;so please lets get the reports flowing in and making the size of your column bigger and better with lots of information.

Send in lots of information and see you next month.

MARINE RADIO PROFILE: (MASSACHUSETTS)
==========

Barnstable:

Boat Carole R.,Inc. - WXZ-595 - 156.800,156.950

Bass River:

Ship Shops,Inc. - KVR-433 - 156.425,156.800

Beverly:

Fair Wind,Inc. - KPB-574 - 2097.9 kc.,2183.4 kc.,4145.0 kc.
6220.0 kc.,8292.5 kc.,12430.6 kc.
156.800,156.975
Boston & Maine Corp. - WRD-625 - 156.425,156.800
Jubilee Yacht Club - WXY-926 - 156.425,156.800
Advanced Electronics - WXZ-227 - 156.425,156.800
Beverly,City of - WXZ-553 - 156.425,156.600,156.800
Beverly Harbour Marine - WHF-719 - 156.450,156.800
North East Surf Patrol - KXS-267 - 156.475,156.600,156.800

Boston:

Bold Ventures,Inc. - WHU-437 - 4143.6 kc.,4145.0 kc.,8294.2 kc.,
8295.6 kc.,12432.3 kc.,12433.7 kc.,
16593.3 kc.,16594.7 kc.,22127.1 kc.,
22128.4 kc.
Boston Yacht Haven - KZM-459 - 156.425,156.800
Commonwealth of Massachusetts - WQZ-353 - 156.425,156.800
Hull & Cargo Surveyors - WHG-968 - 156.450,156.600,156.800
Metropolitan District - KYP-974 - 156.650
A.C.Cruise Line,Inc. - KFN-220 - 156.800,156.950
New England Aquarium - KUF-854 - 156.800,156.975
Ocean Marine Service - KUZ-504 - 156.800,156.975
Massachusetts Commonwealth - KZJ-398 - 156.800,156.850
Neponset River Marina - WDT-514 - 156.800,157.025

Braintree:

Metropolitan Yacht Club - KYH-488 - 156.425,156.800

Brookline:

Tech Engineering Associates - KMD-302 - 6220.0 kc.,6223.0 kc.,
8292.5 kc.,8295.6 kc.
156.500,156.800

Cataumet:

Parker Boat Yard - WHD-520 - 156.350,156.800
Cataumet Boats,Inc. - WXZ-243 - 156.425,156.450,156.800

Charleston:

Bosport Docking Co. - WQB-425 - 156.425,156.450,156.800

Charlestown:

Shipyard Quarters Marine - WHF-708 - 156.575,156.800

Chatham:

Communicape - KBK-392 - 4145.0 kc.,8292.5 kc.,12430.6 kc.,16594.7 kc.
156.450,156.800
Phantom Fish Co. - KFN-280 - 156.550,156.800
KFN-286 - 156.550,156.800
Cape Fishermans Supply - WQB-404 - 156.800,157.025

Chilmark:

Menemsha Boat Basin - KFN-464 - 156.425,156.500,156.800

Cotuit:

Pecks Boats,Inc. - KZW-738 - 156.450,156.900

Danvers:

Danvers Yacht & Marine - WRD-806 - 156.450,156.800

Dartmouth:

Leeson,Richmond T. - KYO-388 - 156.800,157.025

Dennis:

Land & Sea Communications - KZA-916 - 156.475,156.800

Dennisport:

Armstrong,Grant C. - KZU-642 - 156.425,156.500,156.800
Nashawalty Jr.,Albert - WQA-225 - 156.500,156.800

Dorchester:

Savin Hill Yacht Club - KYG-264 - 156.475,156.800
New England Telephone - KZL-293 - 156.800,157.300,157.350

Duxbury:

Long Point Marine - WHU-637 - 156.450,156.800
Duxbury,Town of - WHG-906 - 156.600,156.800,157.100

East Orleans:

Nauset Marine East - WRD-643 - 156.425,156.450,156.800

East Boston:

Boston Towboat Co. - KCB-445 - 4143.6 kc.,4145.0 kc.,6218.6 kc.,
6220.0 kc.,8291.1 kc.,8292.5 kc.
156.500,156.800

Jet Line Services - WHG-666 - 156.450,156.575,156.800
Broad Sound Navigation - KCC-535 - 156.550,156.800

East Dennis:

Sesuit Marine Service - WHF-935 - 156.425,156.800

East Falmouth:

Edwards Boatyard - WHH-290 - 156.425,156.450,156.800,157.100
Green Pond Yacht Service - WHH-212 - 156.450,156.800

Edgartown:

Edgartown Marine,Inc. - WXY-942 - 156.425,156.800
Edgartown Yacht Club - KYH-576 - 156.425,156.575,156.800
Ruddy Duck,Inc. - KYQ-827 - 156.425,156.450,156.800
Larrys Tackle Shop - WHU-445 - 156.425,156.450,156.800

Everett:

Exxon Communications - WXZ-395 - 156.450,156.800
Distrigas Corp. - KTD-576 - 156.500,156.800

Fairhaven:

Acushnet River Safe - WHH-281 - 156.425,156.800
Fairhaven Marine,Inc. - KPB-691 - 156.450,156.800
Curtis Marine Electronics - WQB-397 - 156.450,156.800
Great Eastern Community - KJC-737 - 156.800,161.800,161.900,161.975
Opozda Jr.,Edmond - WHG-696 - 156.800,157.025

Fall River:

High Seas Corp.,Inc. - WHF-941 - 2097.9 kc.,2193.4 kc.,4126.4 kc.,
4145.0 kc.,4420.8 kc.,6220.0 kc.,
8295.6 kc.,12433.7 kc.
156.800,156.950
Massachusetts Dept. of - WQA-838 - 156.650,156.800

Falmouth:

Robert A.Labdon & Associates - WHD-770 - 4126.4 kc.,6220.0 kc.,
8292.5 kc.,12430.6 kc.
156.450,156.800
Cape Cod Convention - WHU-417 - 156.425,156.450,156.800
Falmouth Marine,Inc. - WHU-443 - 156.425,156.450,156.800
Falmouth Yacht Club - WDT-539 - 156.450,156.800
Falmouth,Town of - WHD-855 - 156.450,156.800
Pennington,Melvin H. - WXF-614 - 156.450,156.800
Gun & Tackle,Inc. - WHG-644 - 156.475,156.800
Woods Hole Boat Sales - KSK-255 - 156.800,156.925
Marine Biological Labs - WHU-302 - 156.800,156.900

Gloucester:

Studio Lounge & Deck - WQZ-328 - 0000.0 kc.
156.800,156.950
Yankee Fishing Fleet - KTA-447 - 4125.0 kc.,4126.4 kc.
156.800,156.900
Scan Ocean,Inc. - WHU-309 - 4125.0 kc.,4126.4 kc.,6218.6 kc.,
6220.0 kc.,8291.1 kc.,8292.5 kc.
Koller,Robert P. - KVF-827 - 156.350,156.800
Lippman Marine Products - KWS-653 - 156.800,156.975
Niagara Communications - KYP-881 - 156.800,161.850
Quinby,William - WHF-852 - 156.800,157.025
Wheelers Point Boats - WQZ-247 - 156.425,156.800
Northeast Ford Engines - WRD-819 - 156.425,156.800
Carrancho,John J. - WRV-413 - 156.425,156.600,156.800
Annisquan Yacht Club - WXF-604 - 156.450,156.800
Cape Ann Marina Corp. - KVF-865 - 156.575,156.800

City of Gloucester - WRV-414 - 156.600,156.800,156.950
Cunningham,Melvin C. - WRD-711 - 156.800,156.950
Graham Marine Electronics - WRV-393 - 156.800,156.975
Massachusetts Dept. of - WQA-834 - 156.650,156.800

Harwich Port:

Allen Harbor Marine - KTR-891 - 156.425,156.800

Hingham:

Anchor Electronics - WXF-611 - 156.425,156.800

Hyannis:

Woods Hole Marthas Vineyard - KMC-925 - 156.350,156.800
Hyannis Marine - KMB-834 - 156.425,156.800
Sports Port - WQX-657 - 156.450,156.800

Jamaica Plains:

Russo,John P. - KVF-878 - 156.450,156.800

Magnolia:

North East Surf Patrol - KTD-460 - 156.475,156.600,156.800,157.050
157.100,157.150

Manchester:

Manchester Yacht Club - KVL-931 - 156.425,156.800

Marblehead:

James E.Graves,Inc. - KXE-221 - 156.425,156.450,156.600,156.800
Marblehead Transport - KYR-763 - 156.425,156.450,156.800
North Shore Electronics - KZG-978 - 156.425,156.450,156.600,156.800
Marblehead Boat Rentals - WQB-330 - 156.425,156.600,156.800
Marblehead/Swampscot - WQB-358 - 156.425,156.450,156.800
Graves Yacht Yards,Inc. - WQZ-409 - 156.425,156.500,156.800
Boatworks,Inc. - WHU-503 - 156.450,156.800
Little Harbor Boatyard - WRV-371 - 156.450,156.600,156.800
Sea Star Corp. - WRD-577 - 156.800,156.975

Marion:

Archers Marine Service - KPB-693 - 156.425,156.450,156.800
Burr Bros Boats Inc. - KUF-658 - 156.425,156.800
Beverly Yacht Club - WHD-786 - 156.425,156.800
Town of Marion - WHG-544 - 156.425,156.450,156.600,156.800

Marshfield:

New England Telephone - WOU - 2182.0 kc.,2183.4 kc.,2450.0 kc.,
2451.4 kc.,2506.0 kc.,2507.4 kc.,
2566.0 kc.,2567.4 kc.,
KZN-598 - 2183.4 kc.,2367.4 kc.,2391.6 kc.,
2407.4 kc.
Green Harbor Marina - WHD-788 - 156.450,156.800
North East Surf Patrol - KSK-232 - 156.475,156.600,156.800,157.050,
157.100,157.150
Waitkus,Warren R. - WHD-718 - 156.550,156.600,156.800
Massachusetts Lobster - WHD-709 - 156.450,156.800

Mattapoisett:

Coastal Communications - WHF-991 - 4126.4 kc.,6220.0 kc.,8292.5 kc.,
12433.7 kc.,16588.5 kc.,22125.4 kc.
156.425,156.800
Mattapoisett Boat Yard - KXR-950 - 156.425,156.800
B.F.Boats,Inc. - WHG-910 - 156.425,156.450,156.800

Medford:

Riverside Yacht Club - WHF-958 - 156.575,156.800

Nahant:

Nahant Dory Club - KVR-402 - 156.450,156.800
Northeastern University - WRV-308 - 156.450,156.800

Nantucket:

Woods Hole Marthas Vineyard - KXS-294 - 156.350,156.800
Nantucket Shipyard - WHH-268 - 156.425,156.800
Sherburne Associates - KQU-571 - 156.450,156.800
Nantucket Anglers Club - KXE-272 - 156.450,156.800
Niagara Communications - KIZ-309 - 156.800,161.875,161.925,161.950

New Bedford:

Aiello Bros Inc. - WRV-401 - 2097.9 kc.,2183.4 kc.,4126.4 kc.,
6220.0 kc.,8292.5 kc.,12430.6 kc.,
16588.5 kc.
156.800,157.025
Ocean Marine Service - WXZ-309 - 2097.9 kc.,2183.4 kc.,4126.4 kc.,
4145.0 kc.,6220.0 kc.,8292.5 kc.,
12430.6 kc.,16588.5 kc.,22125.4 kc.
156.425,156.800
Carr,Michelle R. - WRV-418 - 156.350,156.800
Nopper Communications - KAQ-377 - 156.500,156.800
Sea View Fillet Co. - WHG-881 - 156.550,156.800
Boza,John - WHU-380 - 156.500,156.800
New Bedford Stevedoring - KBK-382 - 156.800,156.900
Dahl Loran Service - KCF-625 - 156.800,156.975
Greater New Bedford - WHF-768 - 156.800,157.025
Maritime Stevedoring - WHG-508 - 156.800,156.900
Massachusetts Dept. of Public - WHH-238 - 156.650,156.800

Newburyport:

Massachusetts Dept. of - WQA-806 - 156.650,156.800
Hilton & Strout Fish - WXF-671 - 156.800,156.950

North Dartmouth:

Hatch Marine Service - WQB-565 - 156.500,156.800

North Scituate:

Boat Kathleen A Mira - KVY-582 - 156.450,156.800

Norwell:

Elco Electronics Inc. - WQZ-207 - 4145.0 kc.,6220.0 kc.,8292.5 kc.,
12430.6 kc.,16588.5 kc.,22125.4 kc.

Norwood:

Whitehall Co. Ltd. - KPB-502 - 156.450,156.800

Oak Bluffs:

Commonwealth of Mass. - WRS-915 - 156.350,156.800
Larrys Island Electronics - KUZ-435 - 156.425,156.450,156.500,156.800

Orleans:

Nauset Marine Inc. - KIY-679 - 156.425,156.450,156.800

Osterville:

Town of Barnstable - KXE-260 - 156.600,156.650,156.800
Crosby Maritime Inc. - WRV-597 - 156.800,156.900

Peabody:

Edelstein,Alan M. - WHU-494 - 156.800,157.025

RCMA NEW MEMBERS LIST

AZ 073 - ROBERT S KENYON;P.O. BOX 128;TOMBSTONE;AZ;85638
AZ 074 - MICHAEL E ANDERSON;1922 W LAS PALMARITAS #205;PHOENIX;AZ;85021
CAAL050 - PAUL DE LIBAN;37659 GRANVILLE DR;FREMONT;CA;94536
CALA652 - JEFF T ESPARZA;14008 LA RUE ST;SAN FERNANDO;CA;91340
CALA653 - MARK GRABOWSKI;126 N ALHAMBRA AVE 'B';MONTEREY PARK;CA;91754
CALA654 - MARION WILKES;3131 E 7TH ST #2;LONG BEACH;CA;90804
CANA127 - CHRIS HAYTER;P.O. BOX 3196 FREDERICTON;N.B. CANADA;;
CASD074 - ROBERT L MICKLESON;P.O. BOX 2503;LEUCADIA;CA;92024
CASM038 - DAVID SAWIN;123 N GRANT ST;SAN MATEO;CA;94401
CASU001 - RON A SMITH;950 LOS BRAVOS;YUBA CITY;CA;95991
CAVE033 - JAYD SWENDSEID;1677 KENENA;OJAI;CA;93023
CO 053 - PAUL C WINN;4500 19TH ST #531;BOULDER;CO;80302
DE 020 - GLENN A --LAST NAME AND ADDRESS WITHELD BY REQUEST
FL 215 - NICK MARRO;3900 SW 52 AVE UNIT 503;PEMBROKE PARK;FL;33023
FL 216 - JEROME MADISON;7491 LINCOLN ST;HOLLYWOOD;FL;33024
FL 217 - JACQUES CAZALBOLI;7025 E. TROON CIRCLE;MIAMI LAKES;FL;33014
FL 218 - BARRY --LAST NAME AND ADDRESS WITHELD BY REQUEST
GA 066 - AL GRIMES;1734 OVERLOOK WAY;CONYERS;GA;30207
GA 067 - WILLIAM R COWAN JR;2050 OLD CLINTON RD APT M-6;MACOM;GA;31211
IA 059 - R L --LAST NAME AND ADDRESS WITHELD BY REQUEST
IL 325 - W. SHUMWAY;14439 IRVING AVE;DOLTON;IL;60419
IL 326 - MARY LOU WALLER;118 HILLTOP DR;LAKE IN THE HILLS;IL;60102
KS 039 - JIM GARNER;RR 1 BOX 32;ST JOHN;KS;67576
MA 161 - DAVID --LAST NAME AND ADDRESS WITHELD BY REQUEST
MD 119 - JOE --LAST NAME AND ADDRESS WITHELD BY REQUEST
MI 171 - DOUGLAS PATOSKY;6676 129TH;FENNVILLE;MI;49408
MI 172 - DONALD --LAST NAME AND ADDRESS WITHELD BY REQUEST
NJ 213 - CURTIS R REAM;HUDSON GUILD FARM;ANDOVER;NJ;07821
NJ 214 - ROBERT L KING;ABSECON TWH 5-O;ABSECON;NJ;08201
NJ 215 - WAYNE L BOBO;6116 HARVEY AVE;PENNSAUKEN;NJ;08109
NY 352 - JIM CLAIR;P.O. BOX 191;STATEN ISLAND;NY;10305
NY 353 - CHRISTOPHER WAITE;6 ANN LYNN RR;PITTSFORD;NY;14534
NY 354 - JOSEPH A NOONEY;
RD 3 BOX 69 SLEEPYHALLOW APTS #1;CATSKILL;NY;12414
NY 355 - RICHARD CAPOBIANCO;227 WANSER AVE;INWOOD;NY;11696
OH 182 - ROBERT TRUNK;24091 DETROIT RD;WESTLAKE;OH;44145
OR 069 - MICHAEL --LAST NAME AND ADDRESS WITHELD BY REQUEST
PA 228 - SEAN --LAST NAME AND ADDRESS WITHELD BY REQUEST
SC 029 - JAMES MINOR JR;714 ABBEVILLE AVE NE;AIKEN;SC;29801
TX 179 - EDNA MCMILLAN;RT 1 BOX 178;COLORADO CITY;TX;79512
TX 180 - CATHERINE KELLER;7111 TAWNY CIRCLE;AUSTIN;TX;78745
TX 181 - GARY CORBETT;7227 N MESA #404;EL PASO;TX;79912
UT 018 - JOSEPH FIALA;960 N 1000 W;PROVO;UT;84604
WV 019 - WILLIAM R HARNER;RT 1 BOX T-141;CHARLES TOWN;WV;25414

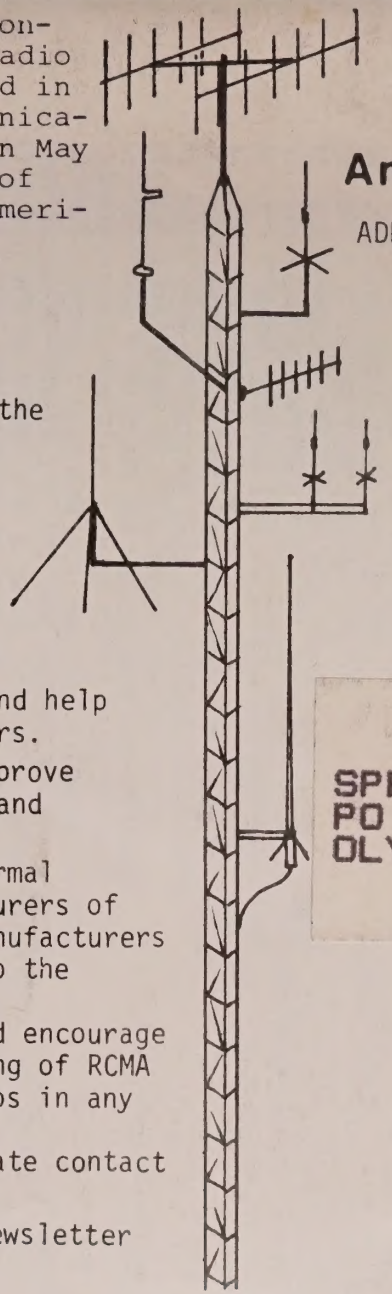
* * * * * *
* SECOND *
* ANNUAL *
* PICNIC *
* * * * * *

The ALL OHIO SCANNER CLUB will host it's second annual summer meeting and picnic on Saturday, August 17, 1986, in Columbus, Ohio. All R.C.M.A. members are invited to attend. For more information, please send a SASE to David B. Marshall OH 146 50 Villa Road, Springfield, OH 45503-1036

The Radio Communications Monitoring Association is a radio club for persons interested in listening to two-way communications. RCMA was founded in May 1975 and is a Full Member of the Association of North American Radio Clubs (ANARC).

The goals of RCMA are:

1) To provide a fraternity for those who seriously pursue the hobby of monitor radio listening.
2) To try to be knowledgeable about two-way radio systems and operations.
3) To promote an understanding of the legal and ethical uses of monitor receivers.
4) To share information with and help other monitor radio listeners.
5) To try to understand and improve receivers, antenna systems and related equipment.
6) To offer suggestions and formal recommendations to manufacturers of monitor receivers and to manufacturers of other products related to the hobby.
7) To offer suggestions for and encourage the organizing and conducting of RCMA meetings and tours for groups in any geographic area.
8) To encourage and to facilitate contact between members.
9) To publish a regular club newsletter devoted to the hobby.



RCMA
P.O. Box 4563
Anaheim, CA 92803

ADDRESS CORRECTION REQUESTED

BULK RATE
U.S. POSTAGE
PAID
LAGUNA BEACH, CA
PERMIT NO. 400

WA 026 287
SPENCER L BAHNER
PO BOX 1432
OLYMPIA, WA 98507

RUSH -- ITEMS OF NEWS VALUE
TIME VALUE